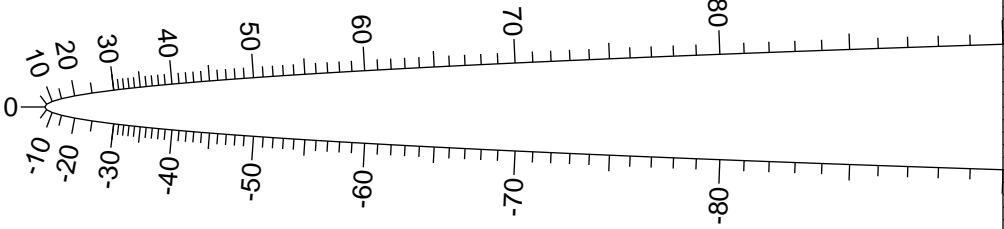


$H, [Az]$

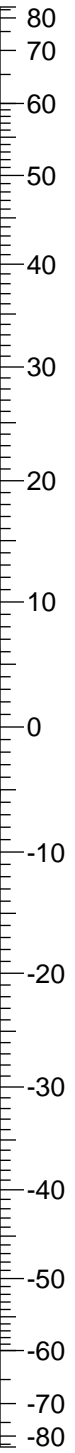
Latitude 5°

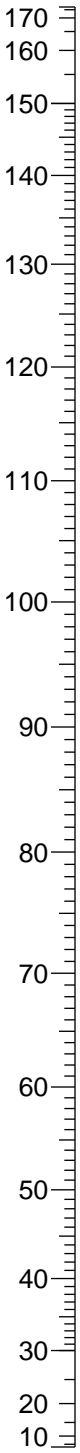
$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$



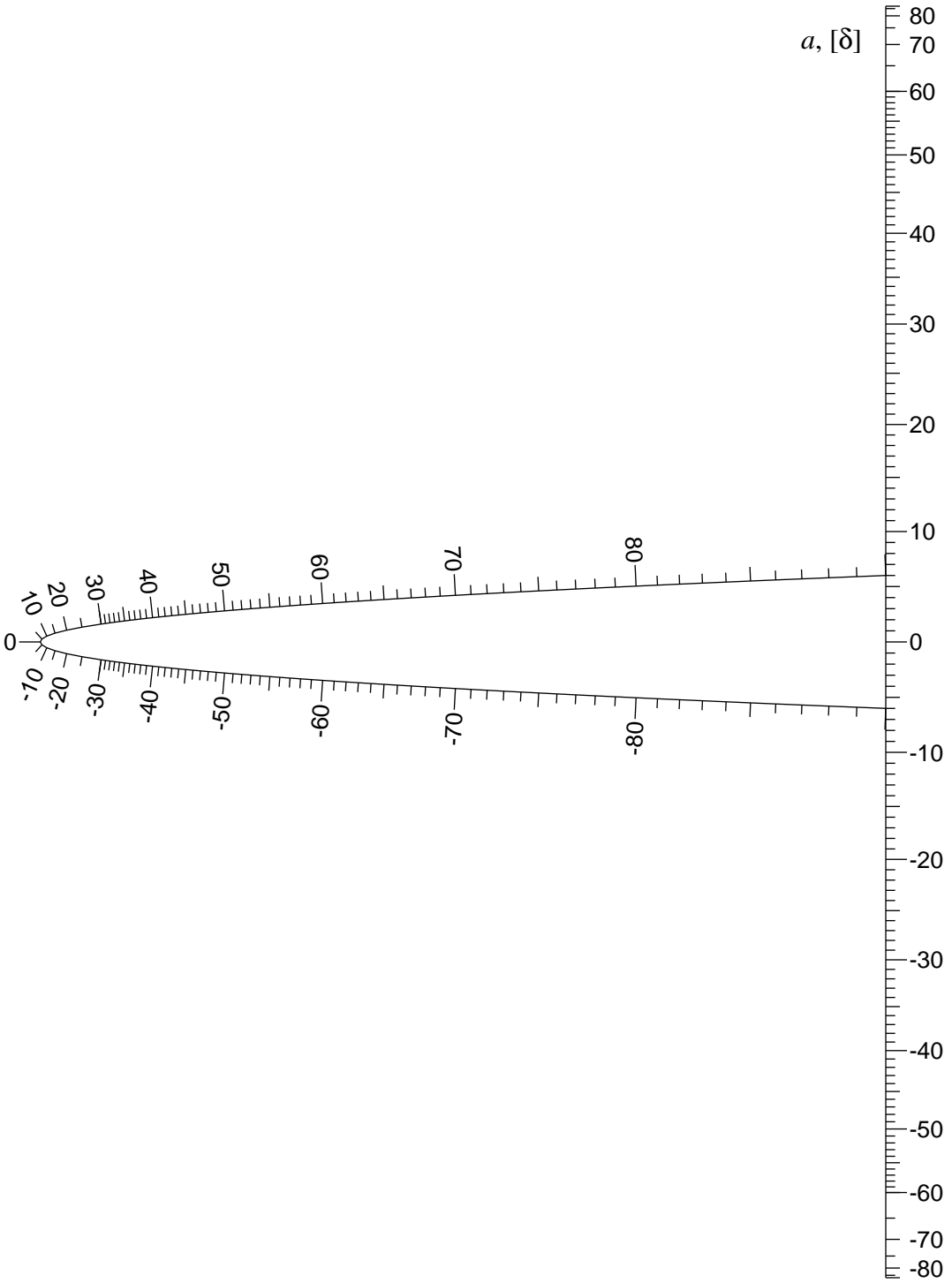


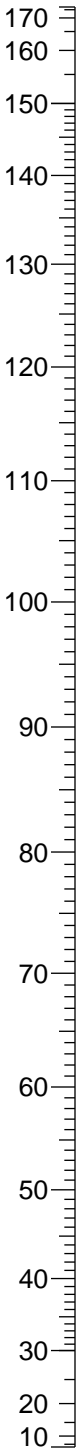
$H, [Az]$

Latitude 6°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



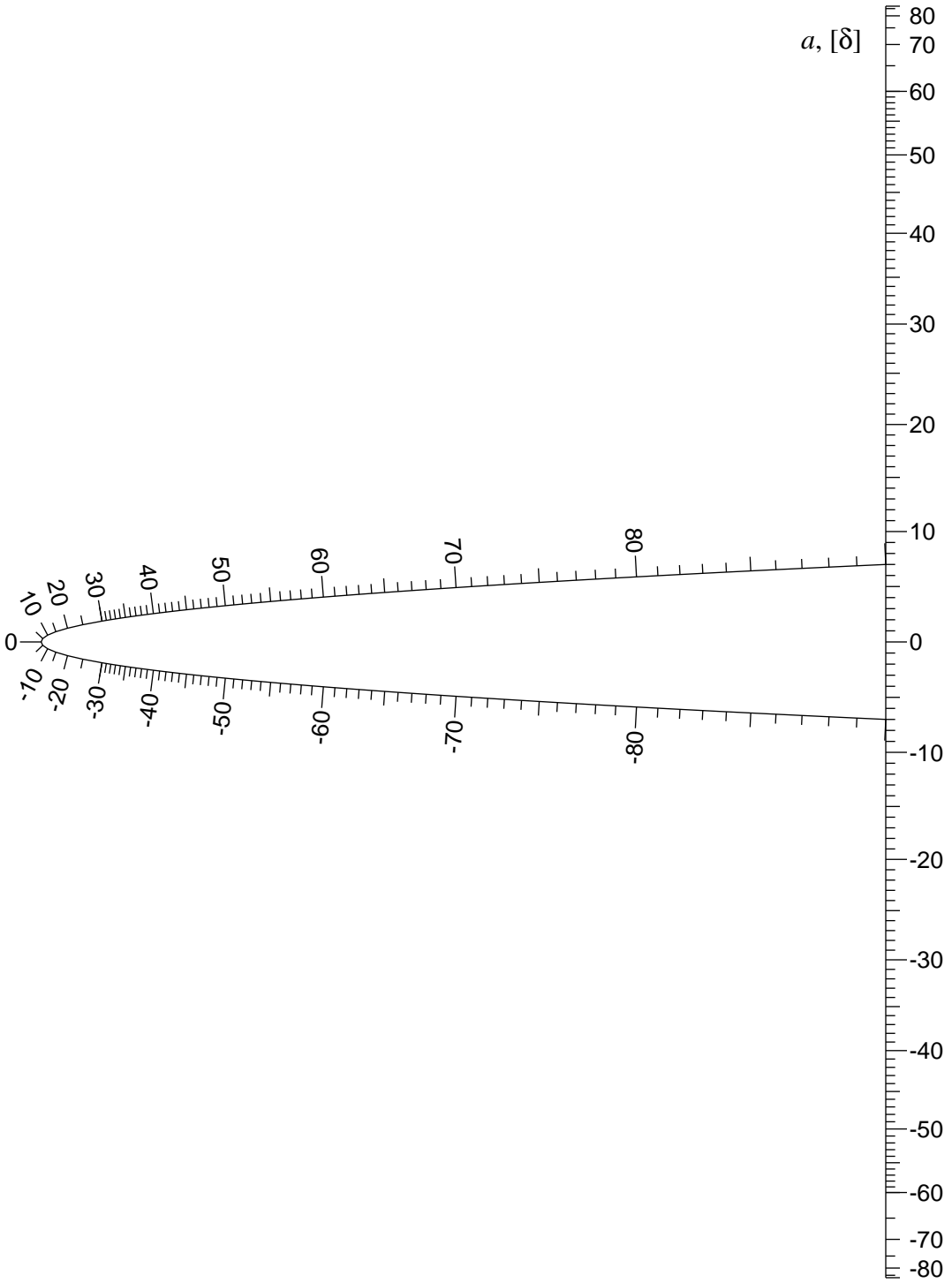


$H, [Az]$

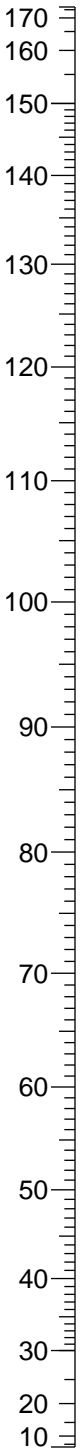
Latitude 7°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

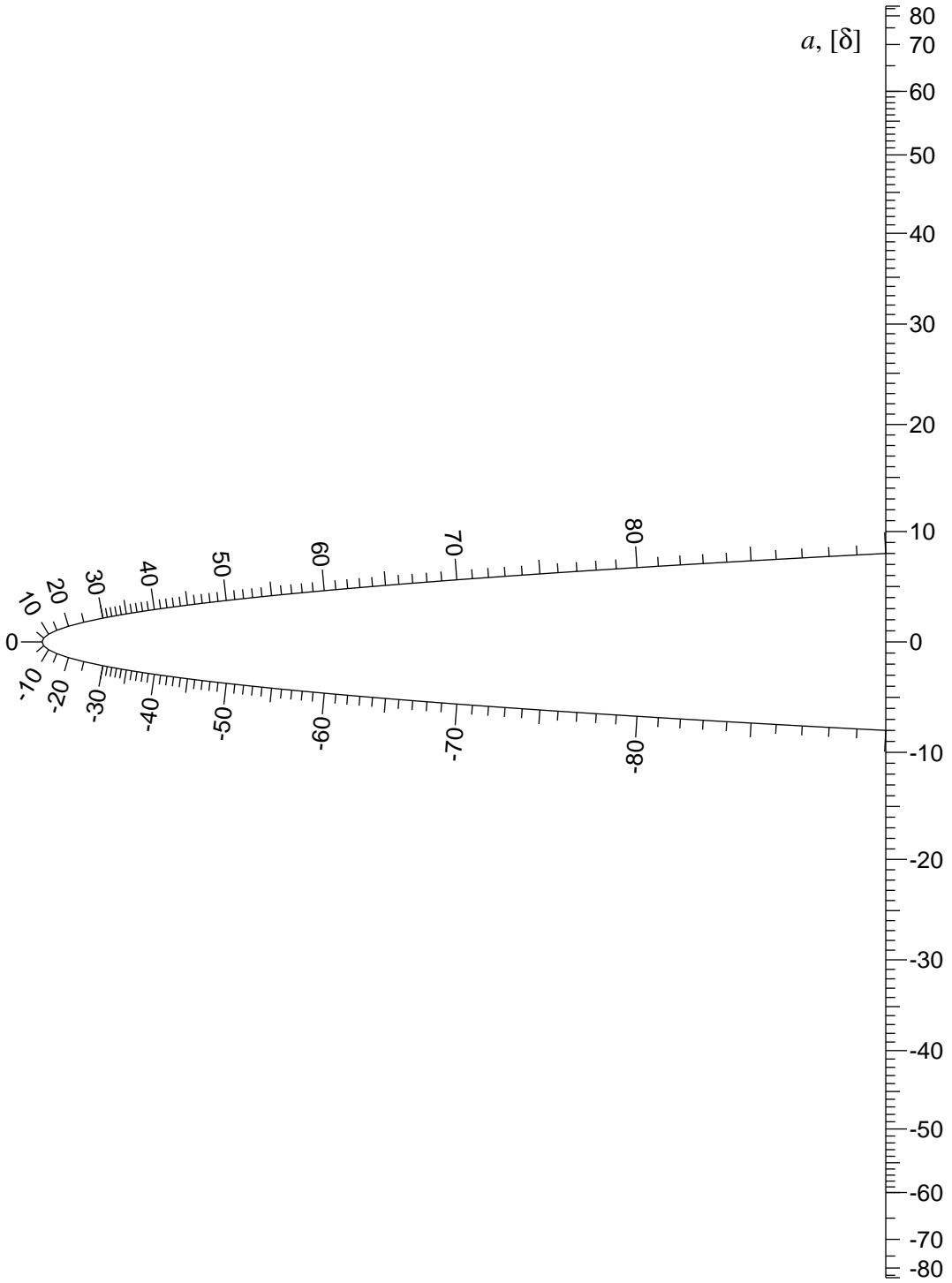


$H, [Az]$

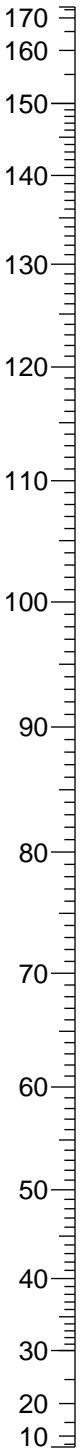
Latitude 8°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

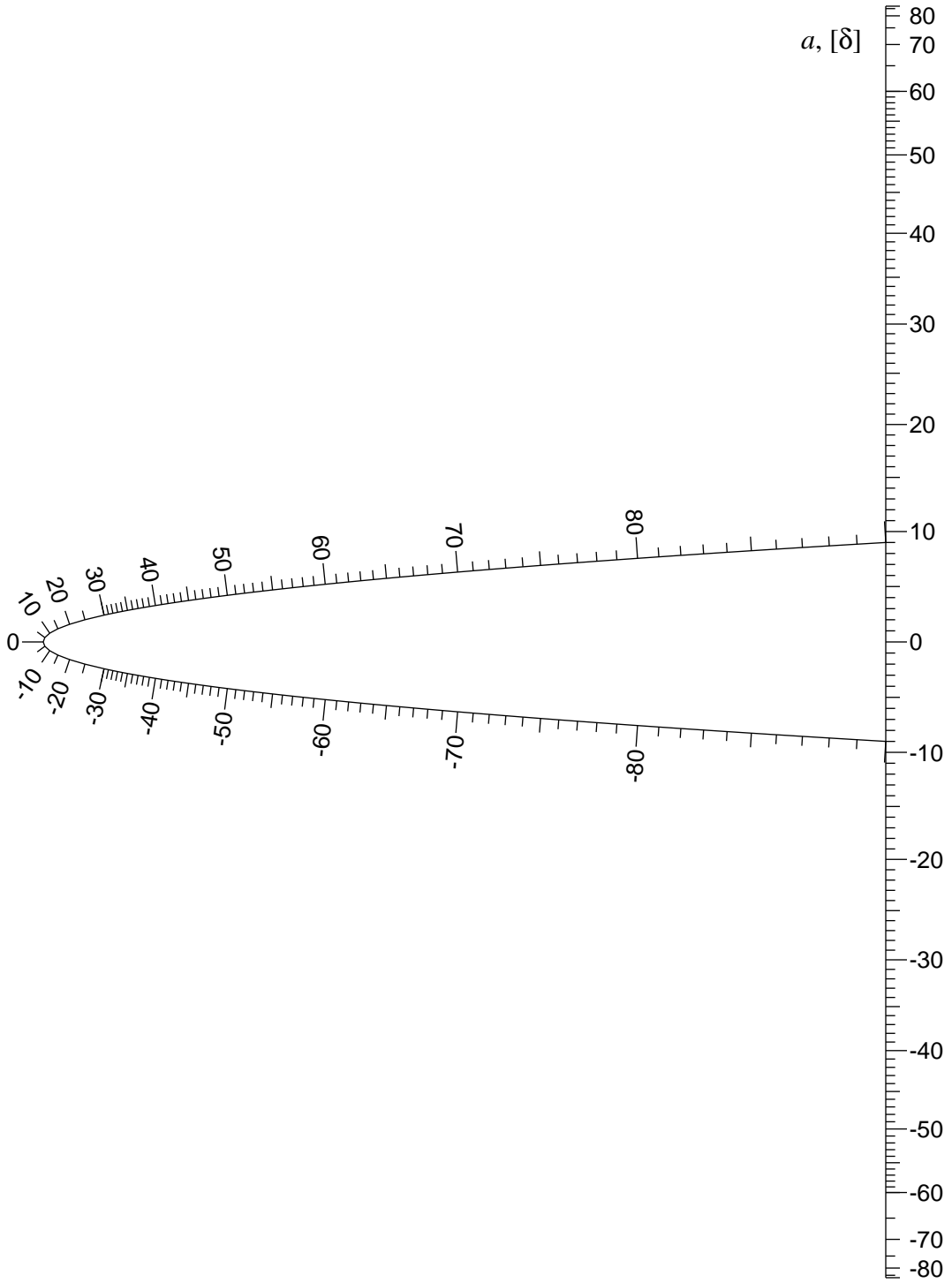


$H, [Az]$

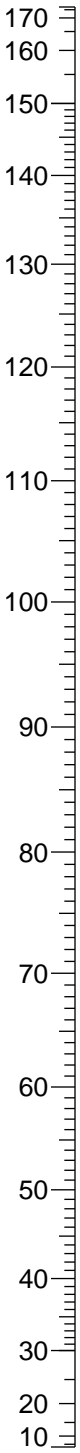
Latitude 9°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

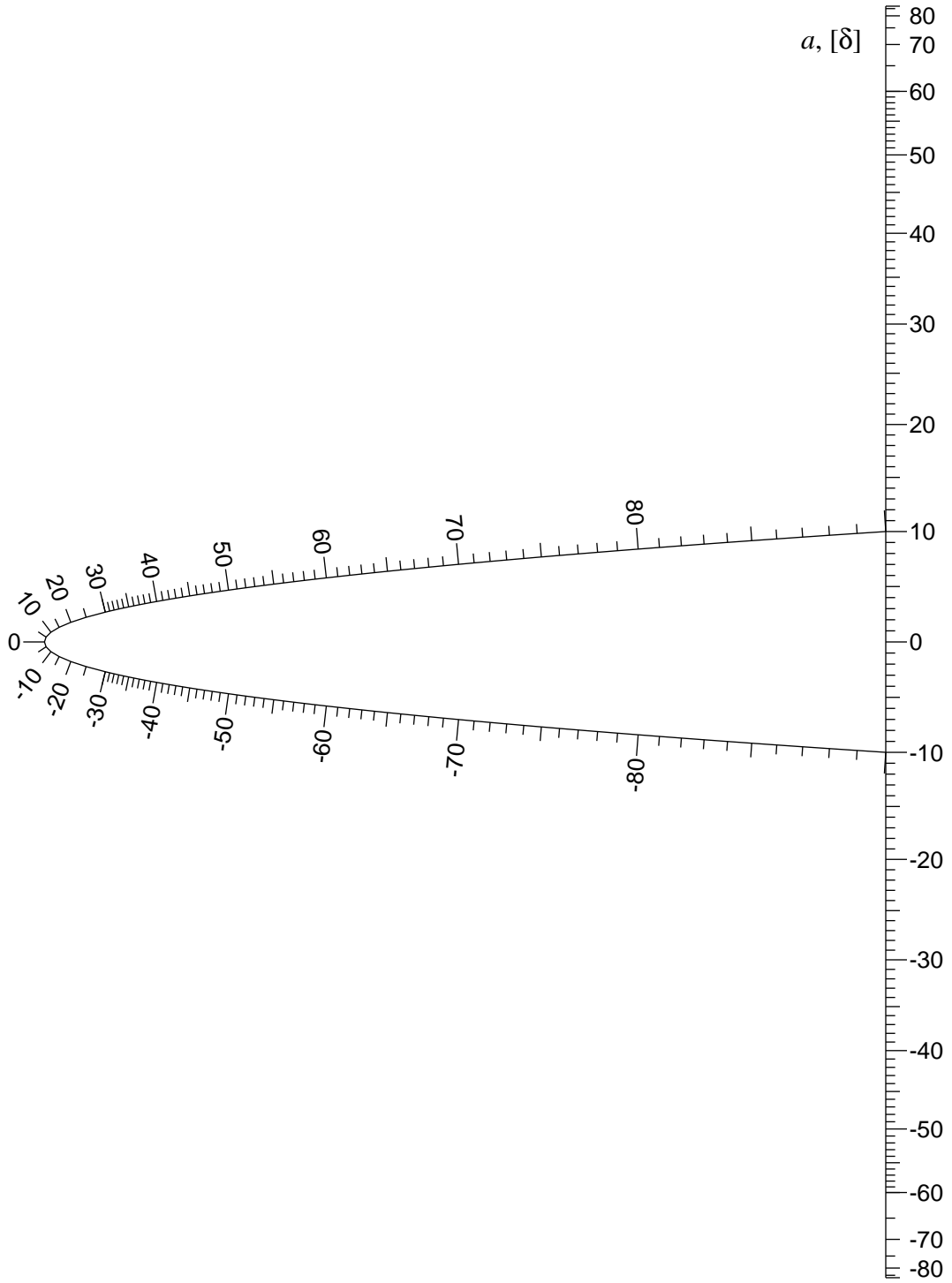


$H, [Az]$

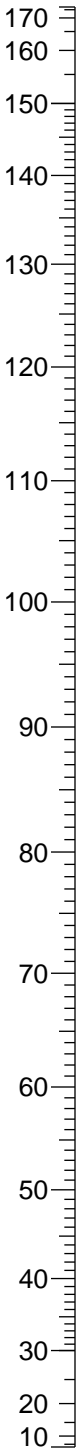
Latitude 10°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

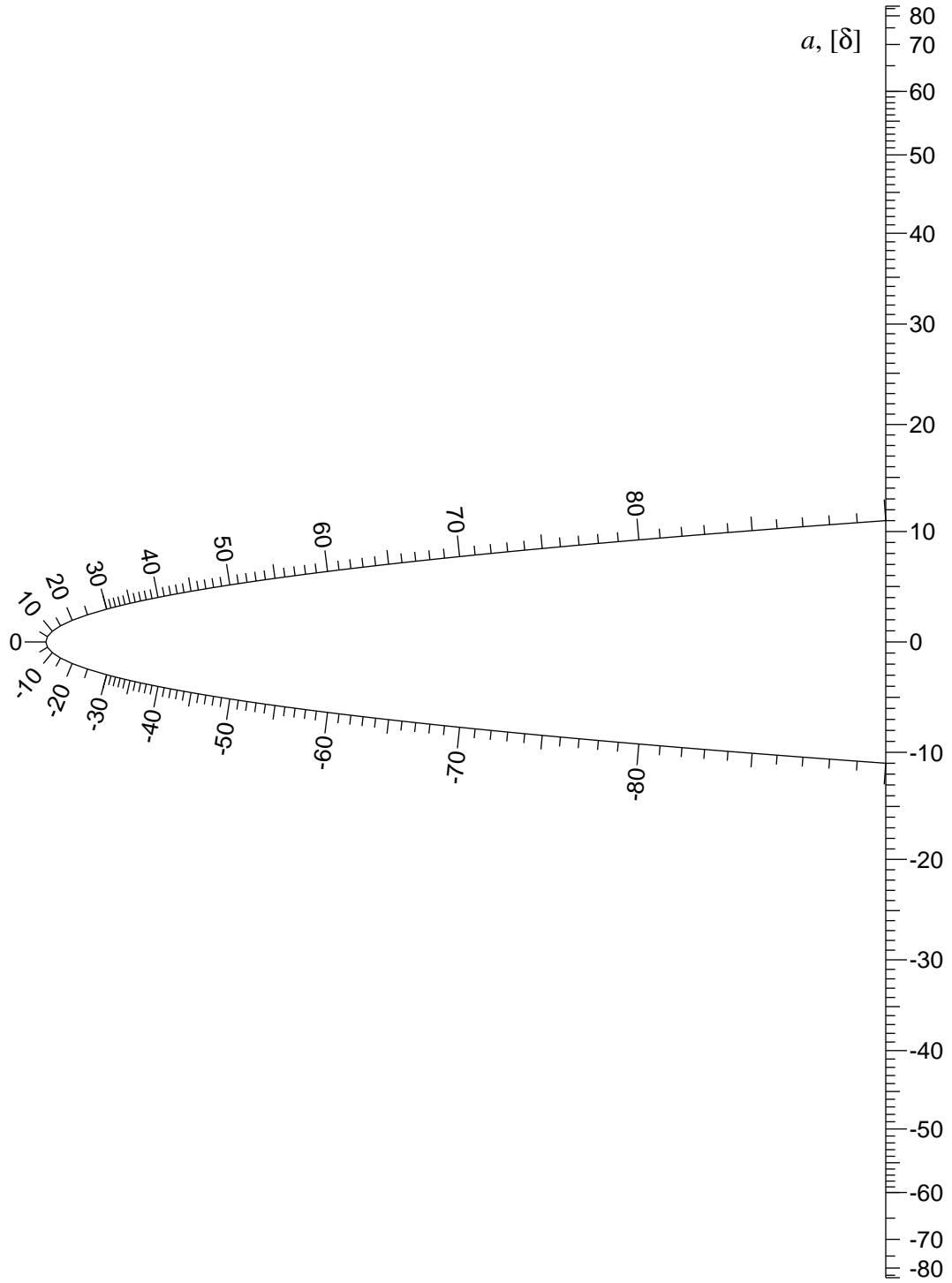


$H, [Az]$

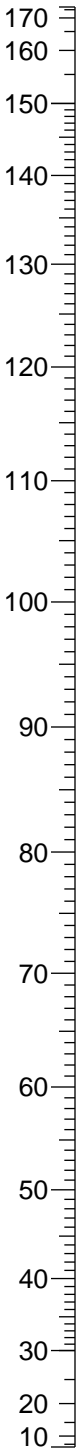
Latitude 11°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

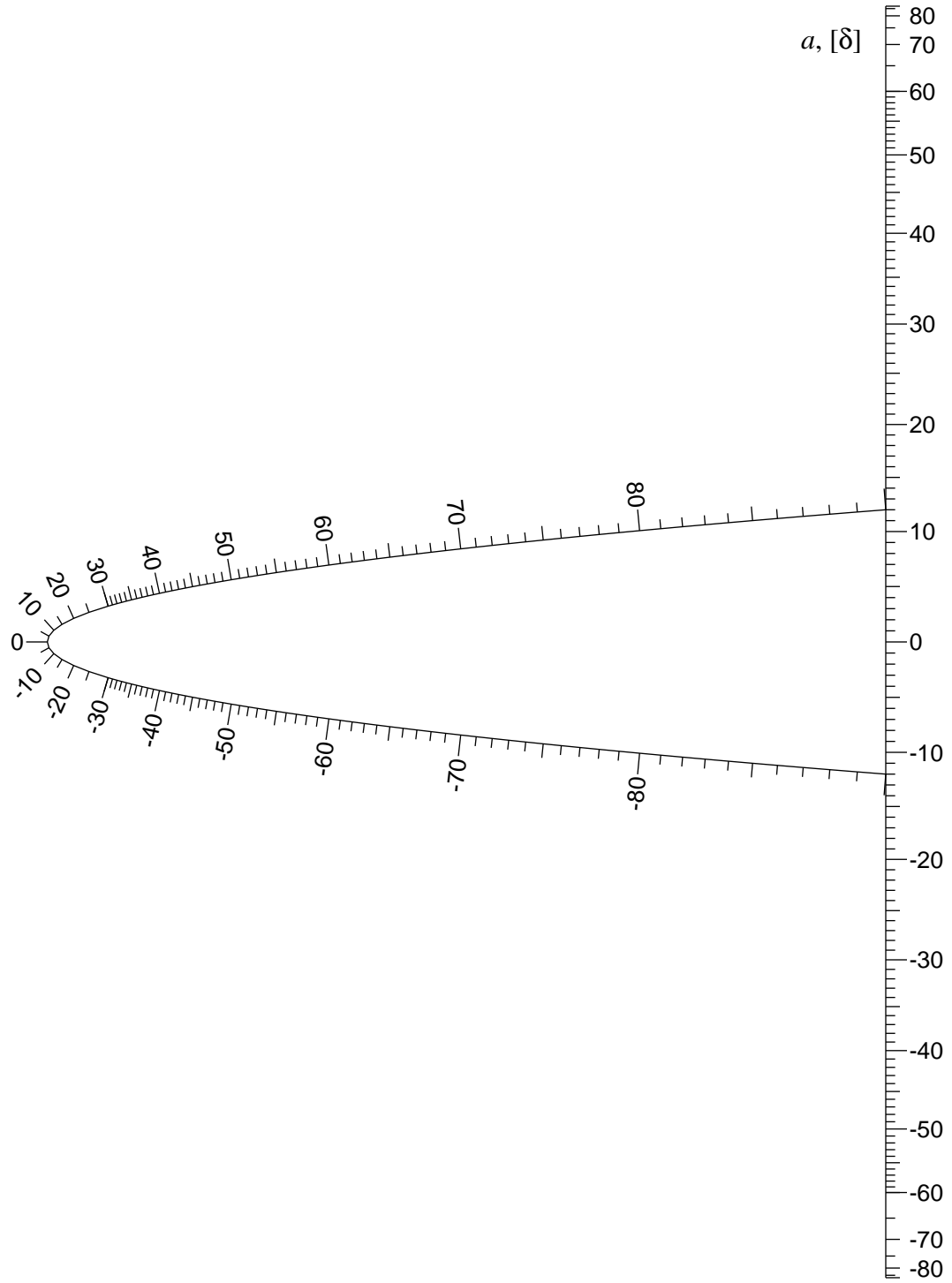


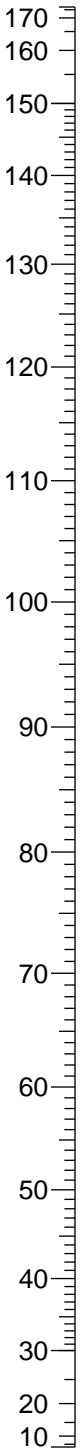
$H, [Az]$

Latitude 12°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



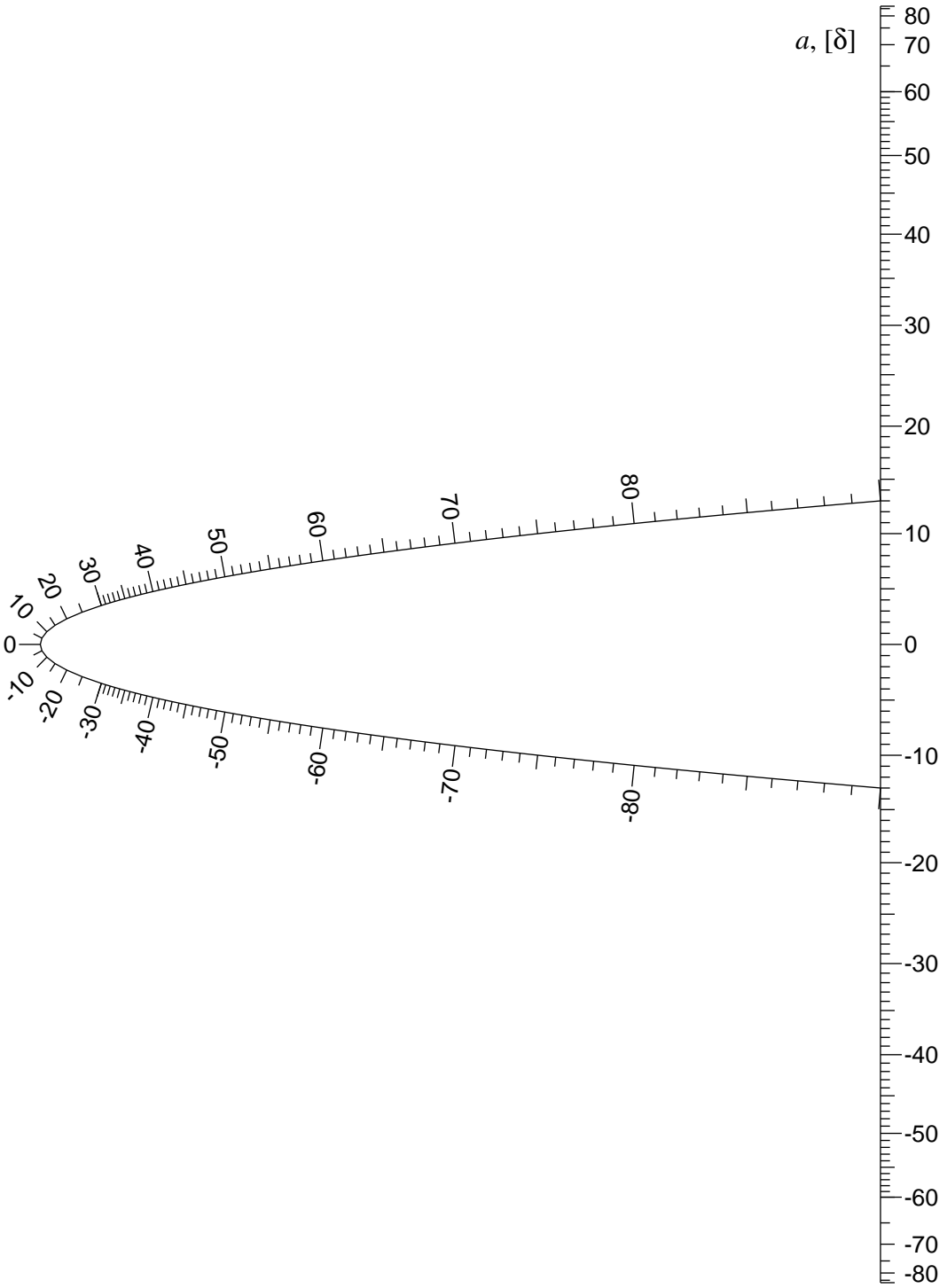


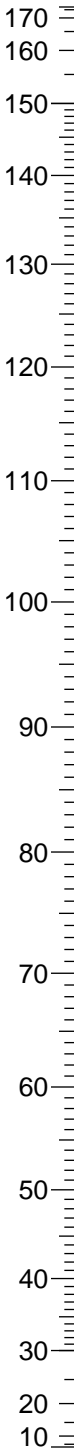
$H, [Az]$

Latitude 13°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



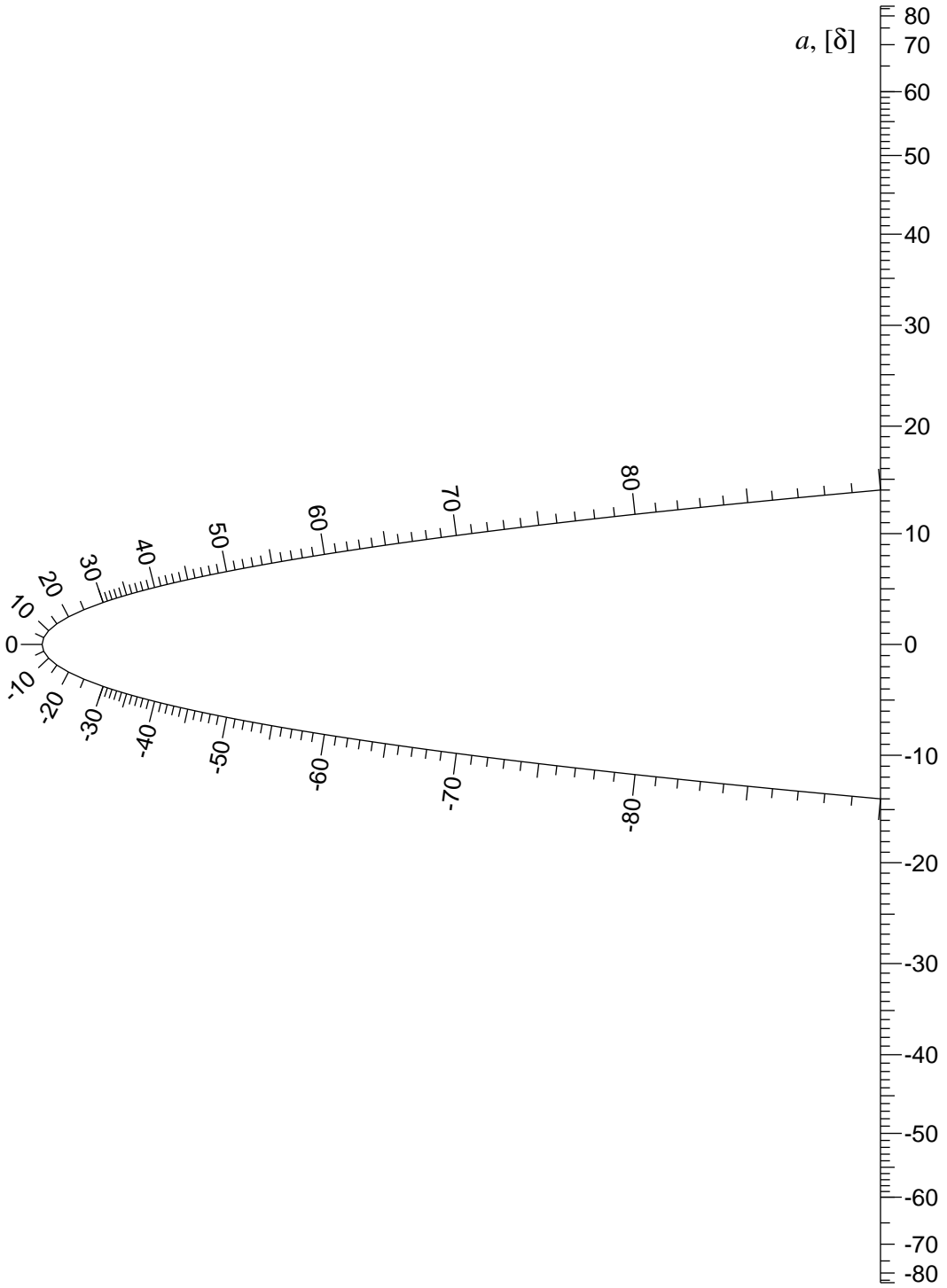


$H, [Az]$

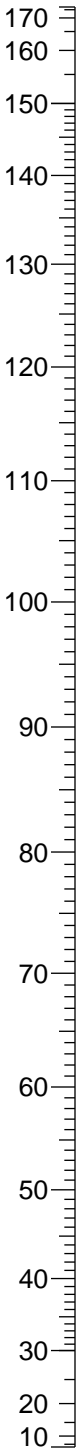
Latitude 14°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

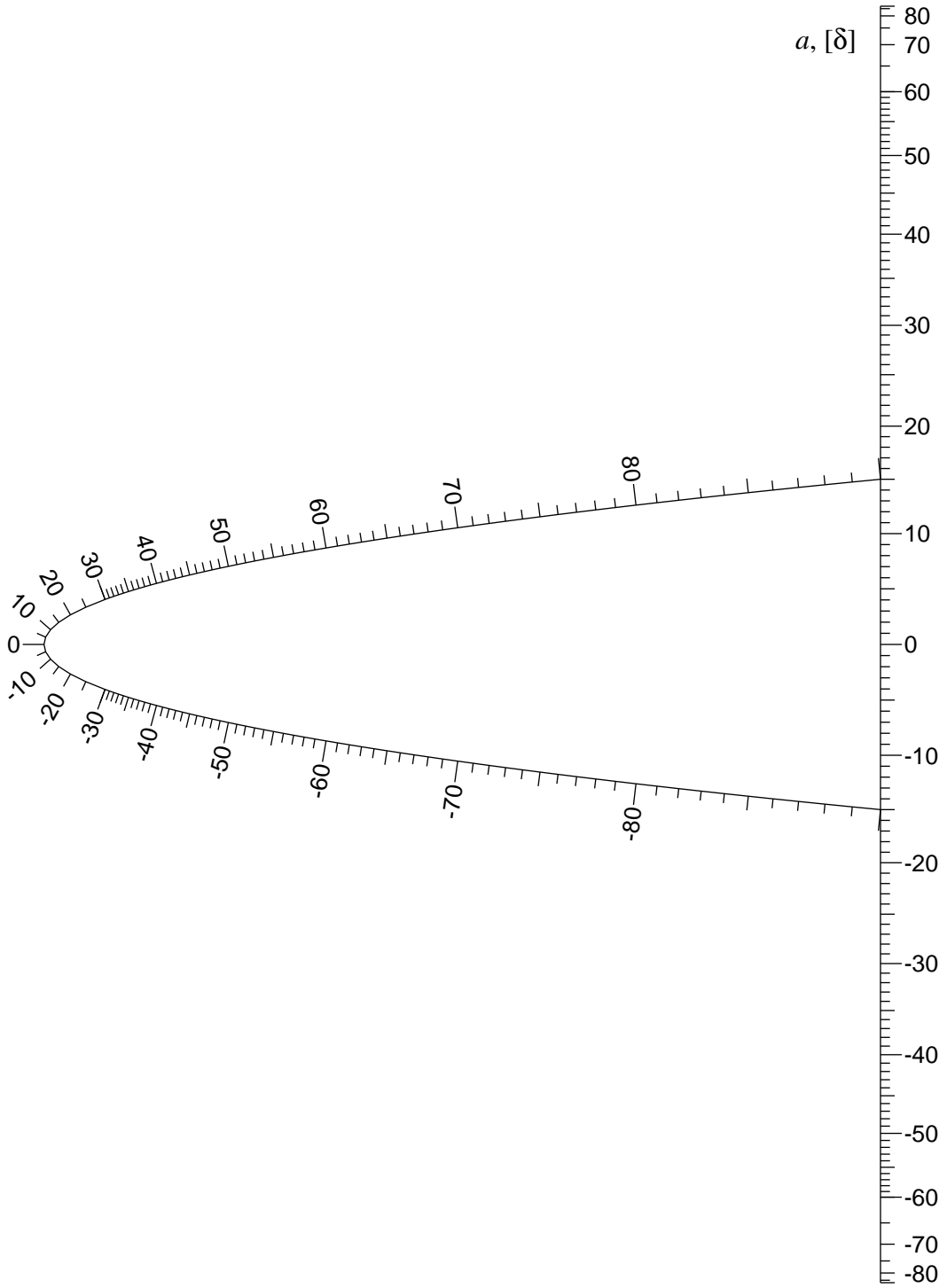


$H, [Az]$

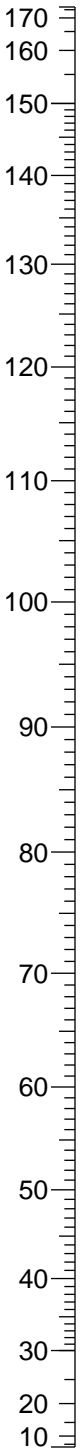
Latitude 15°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

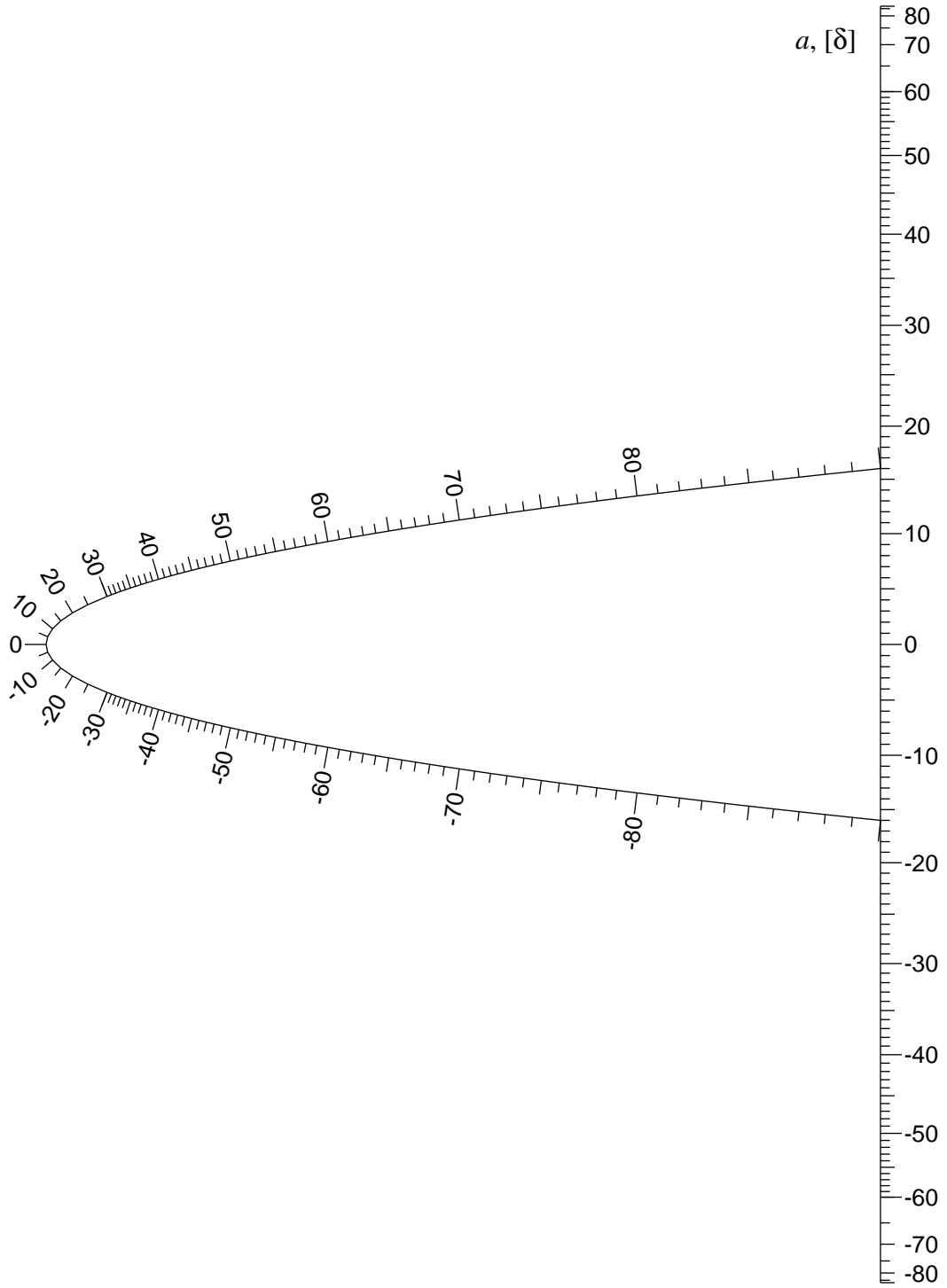


$H, [Az]$

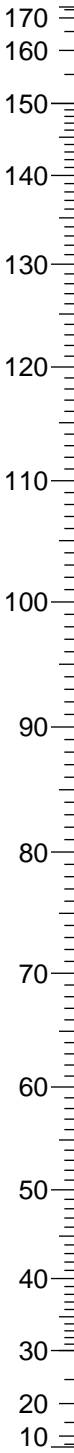
Latitude 16°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

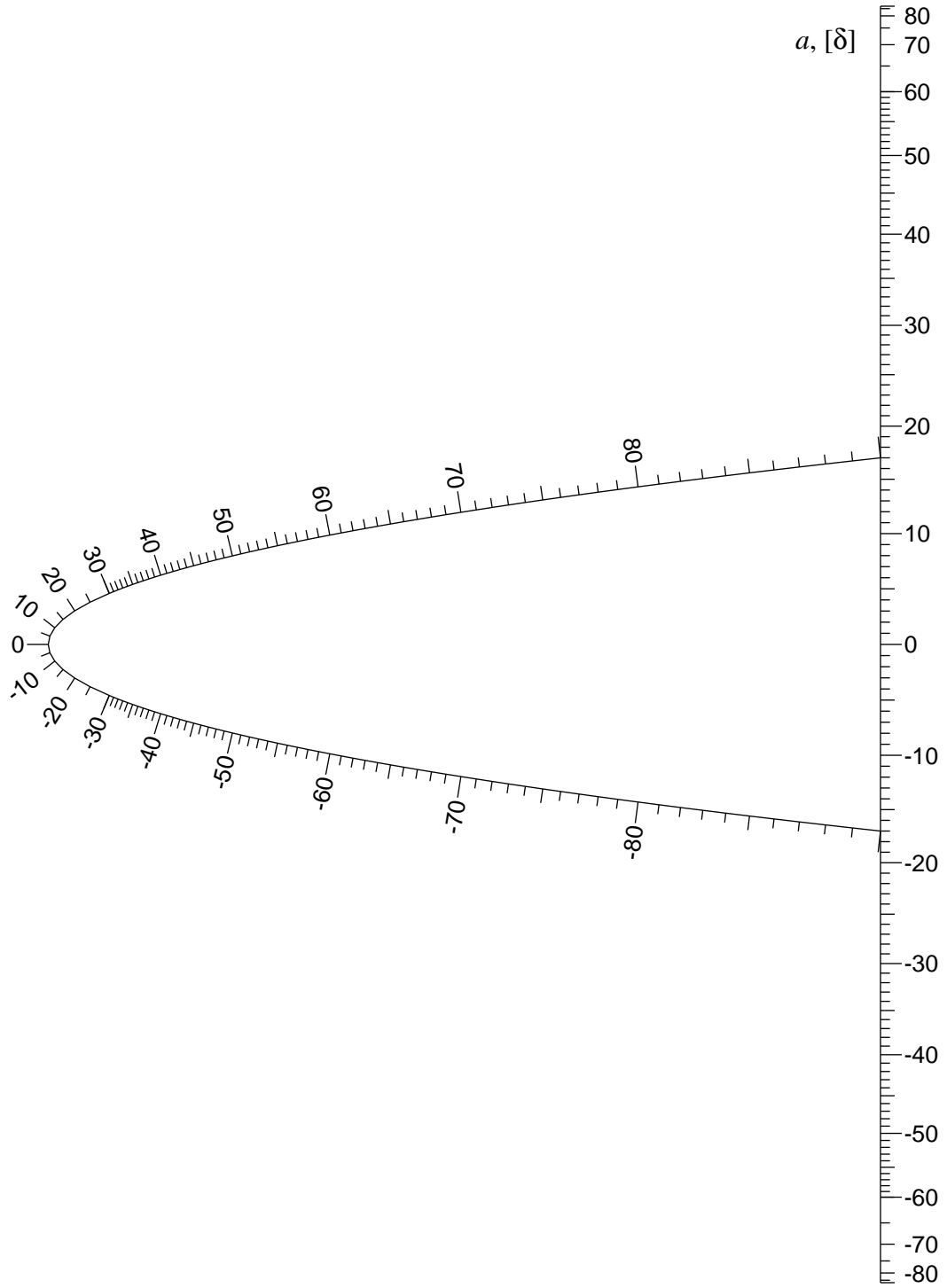


$H, [Az]$

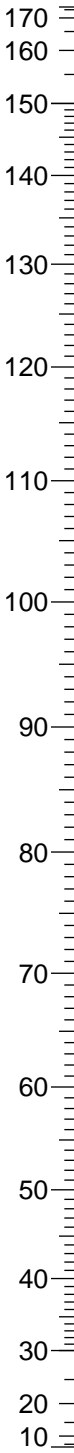
Latitude 17°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

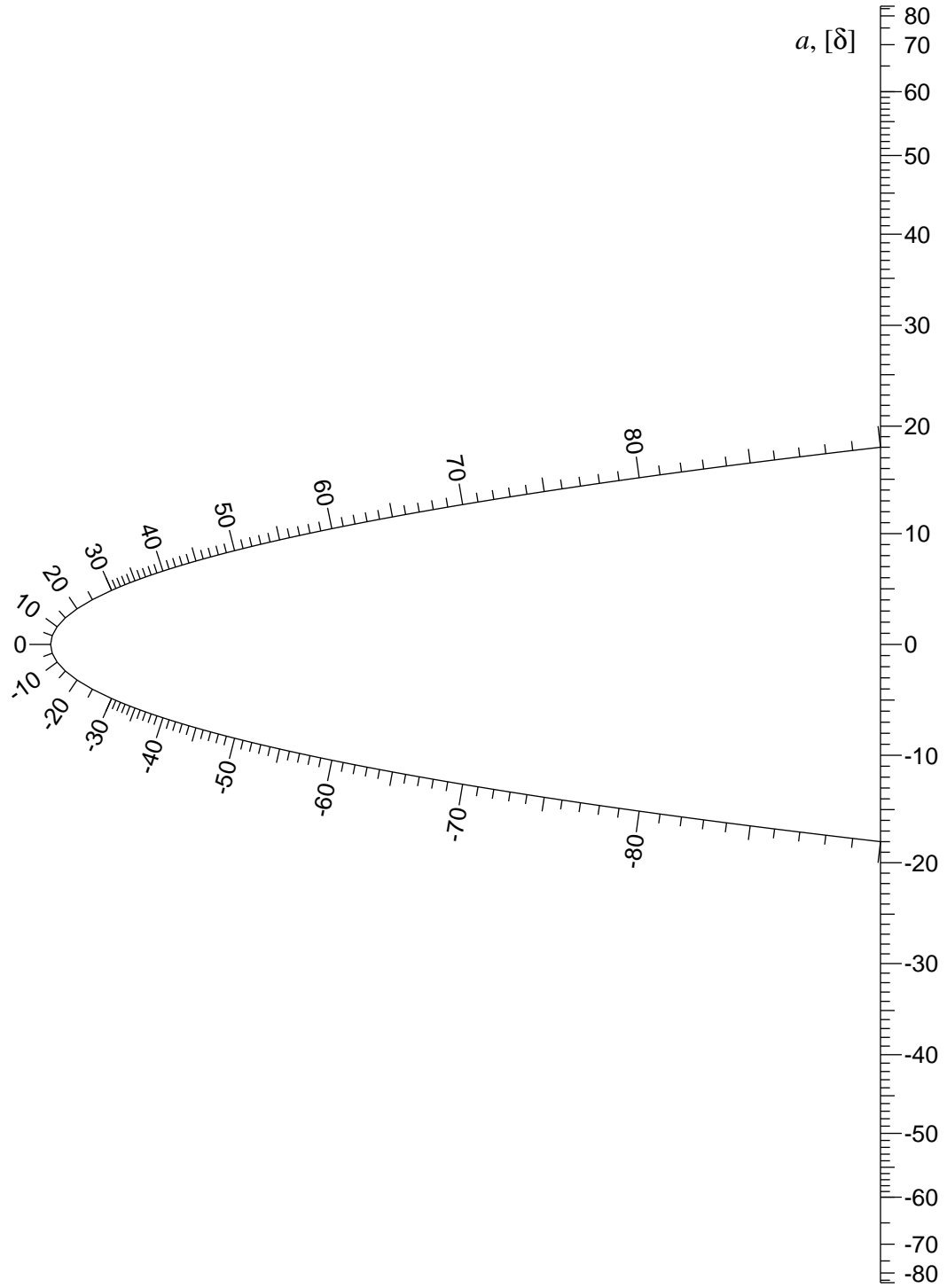


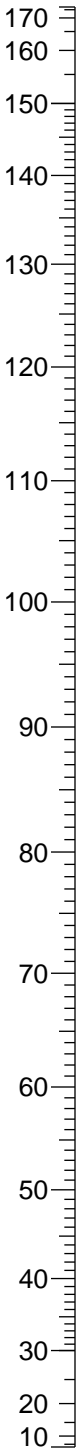
$H, [Az]$

Latitude 18°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



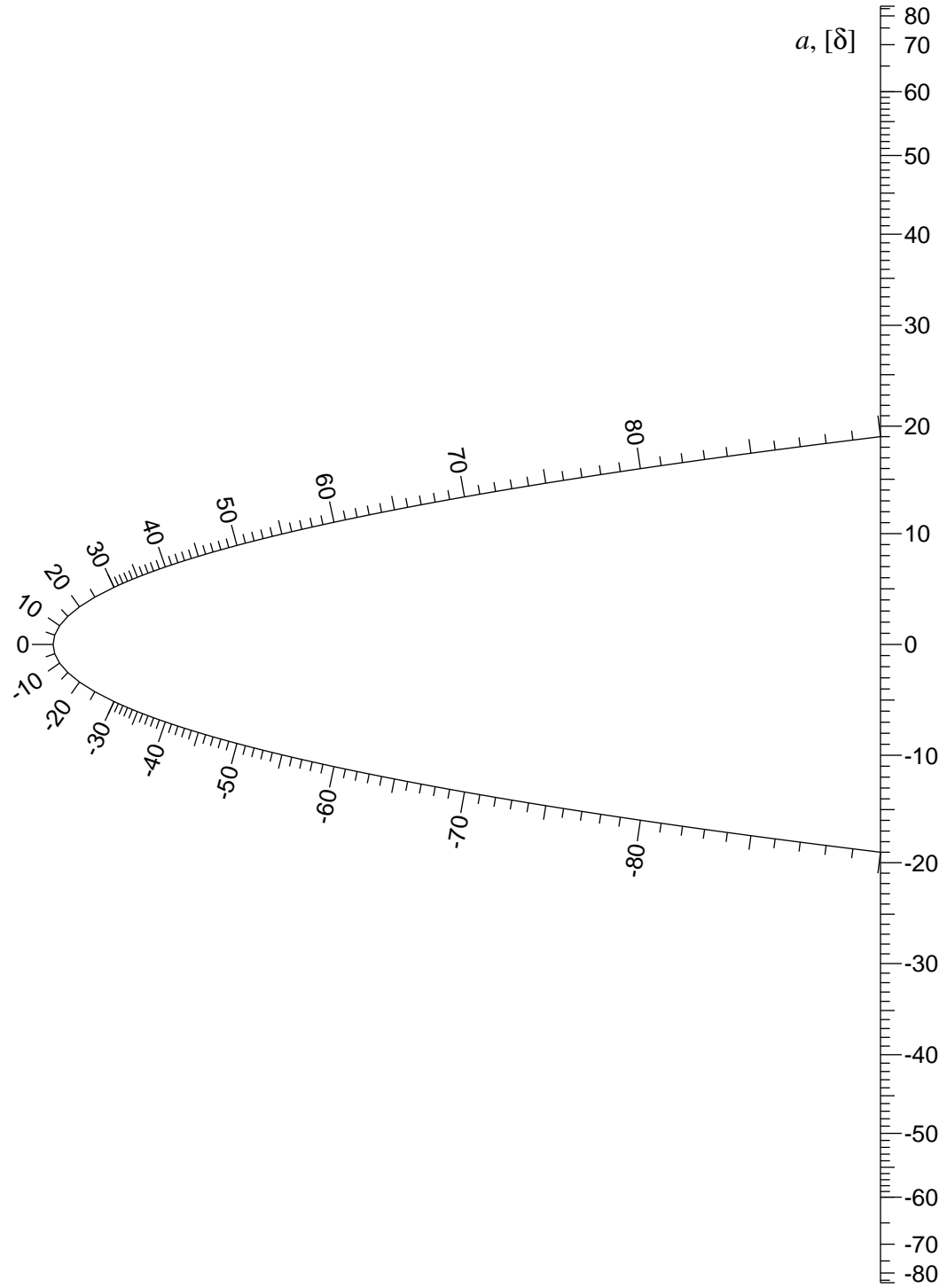


$H, [Az]$

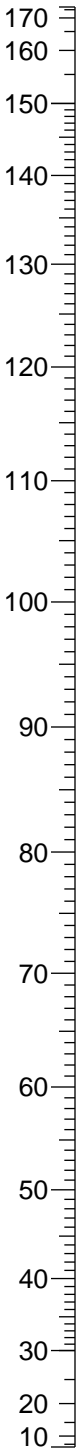
Latitude 19°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

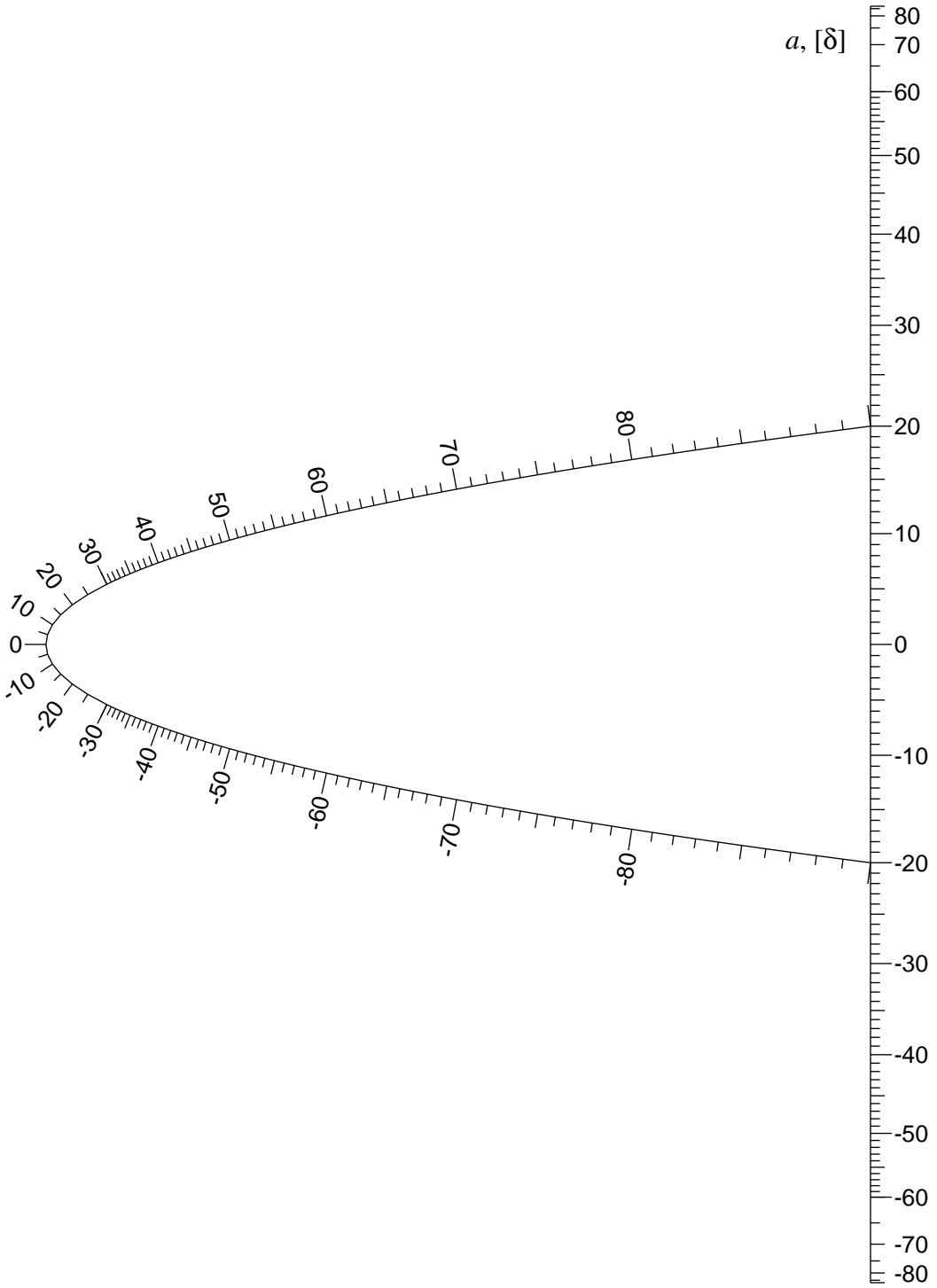


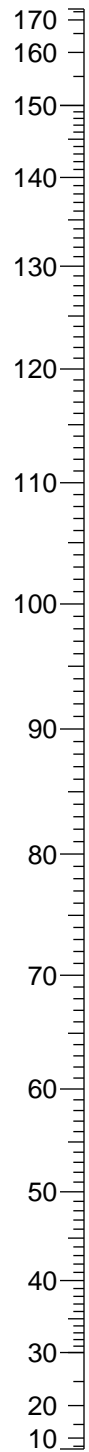
$H, [Az]$

Latitude 20°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



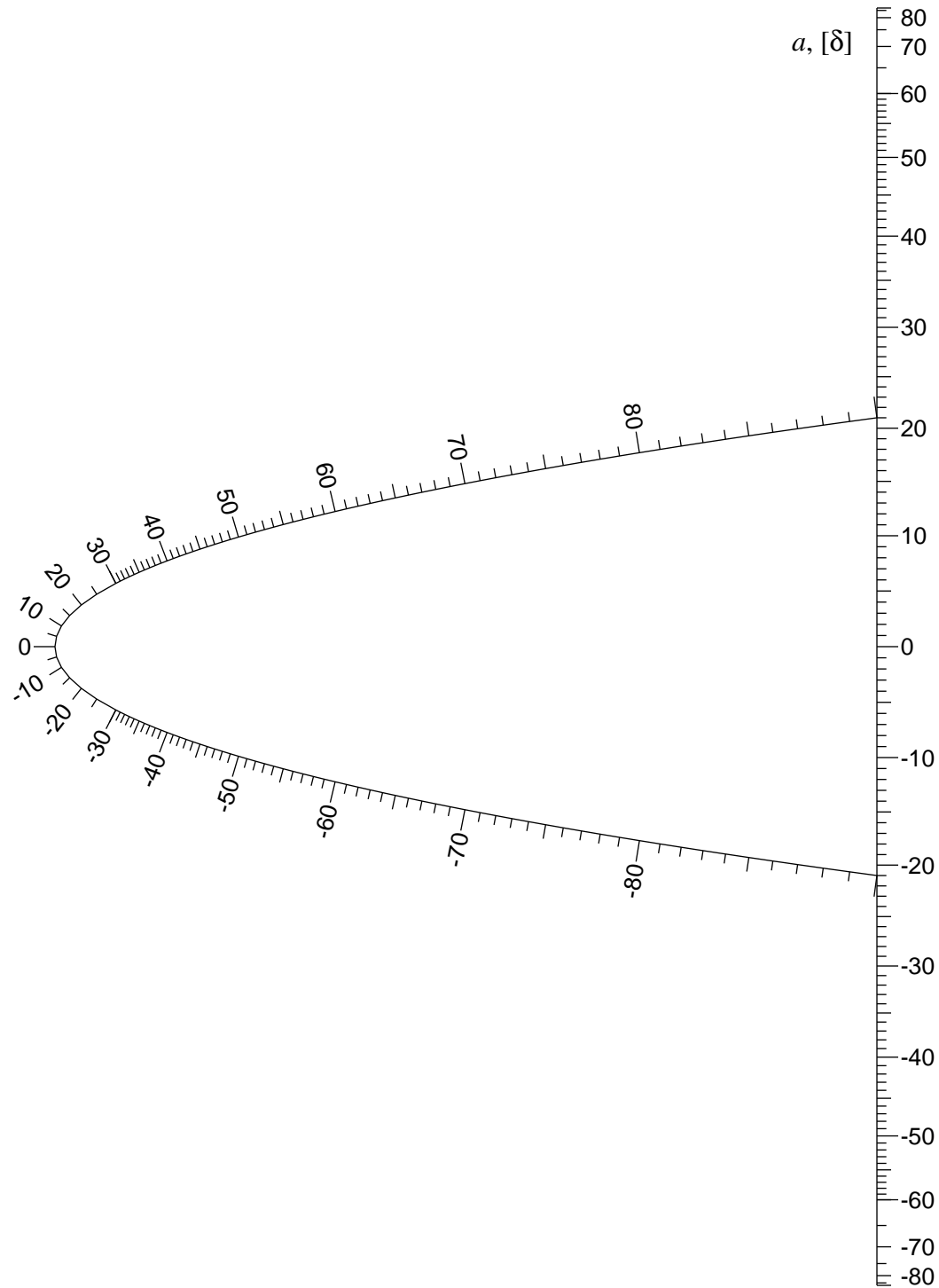


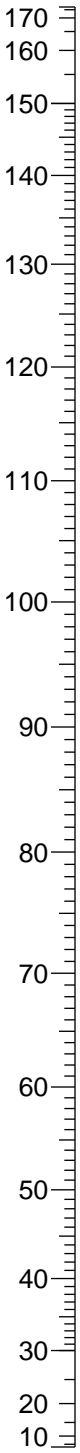
$H, [Az]$

Latitude 21°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



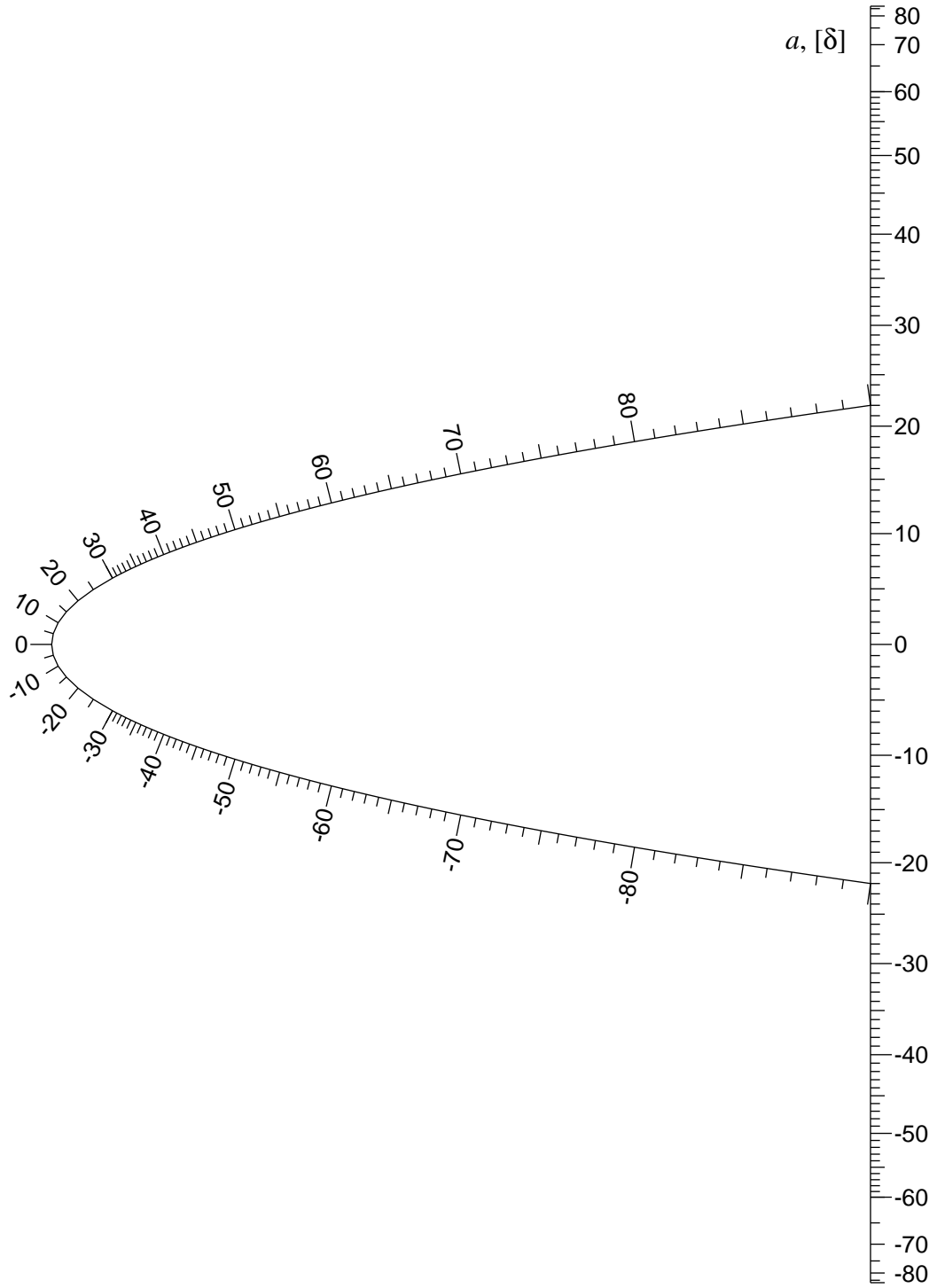


$H, [Az]$

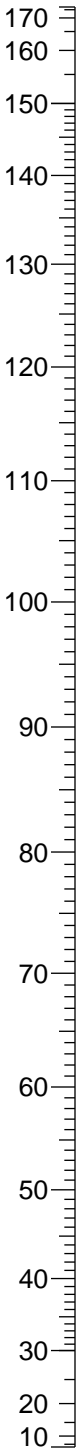
Latitude 22°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

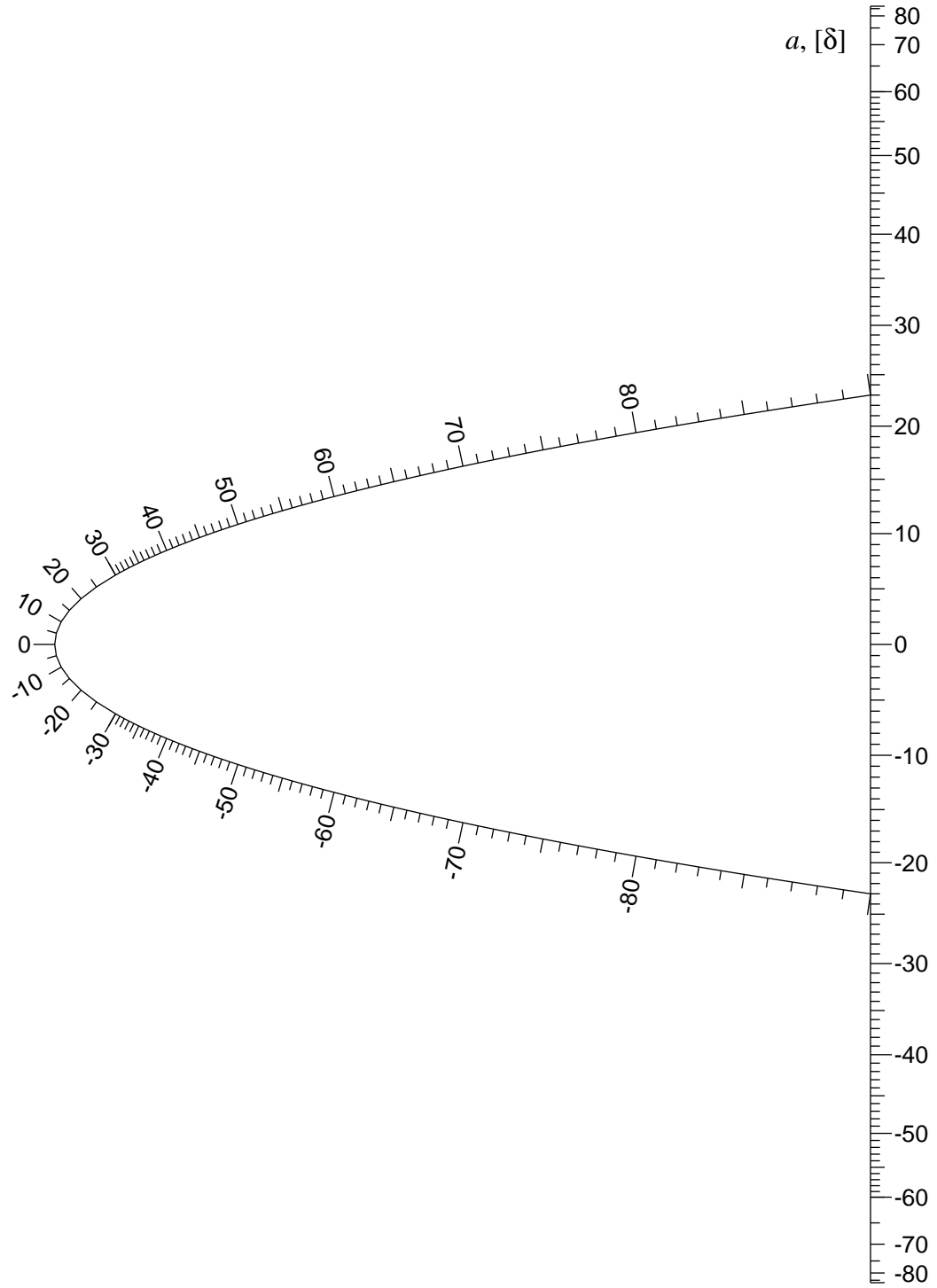


$H, [Az]$

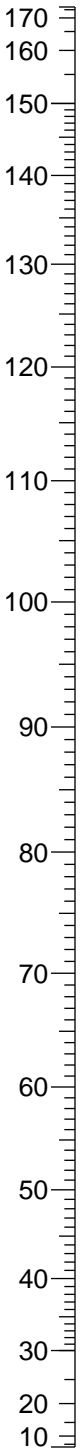
Latitude 23°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

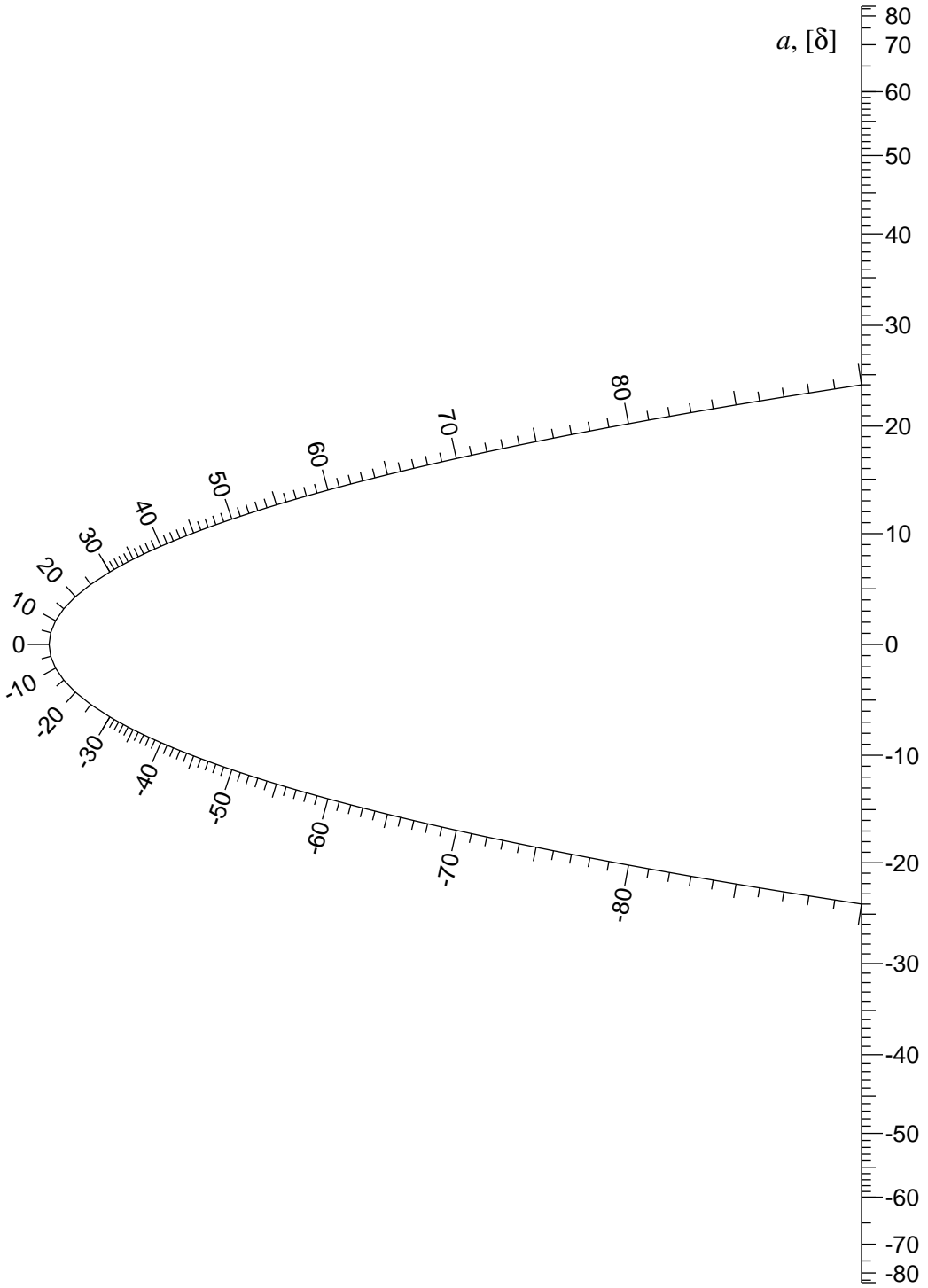


$H, [Az]$

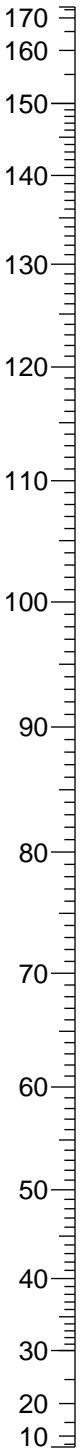
Latitude 24°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

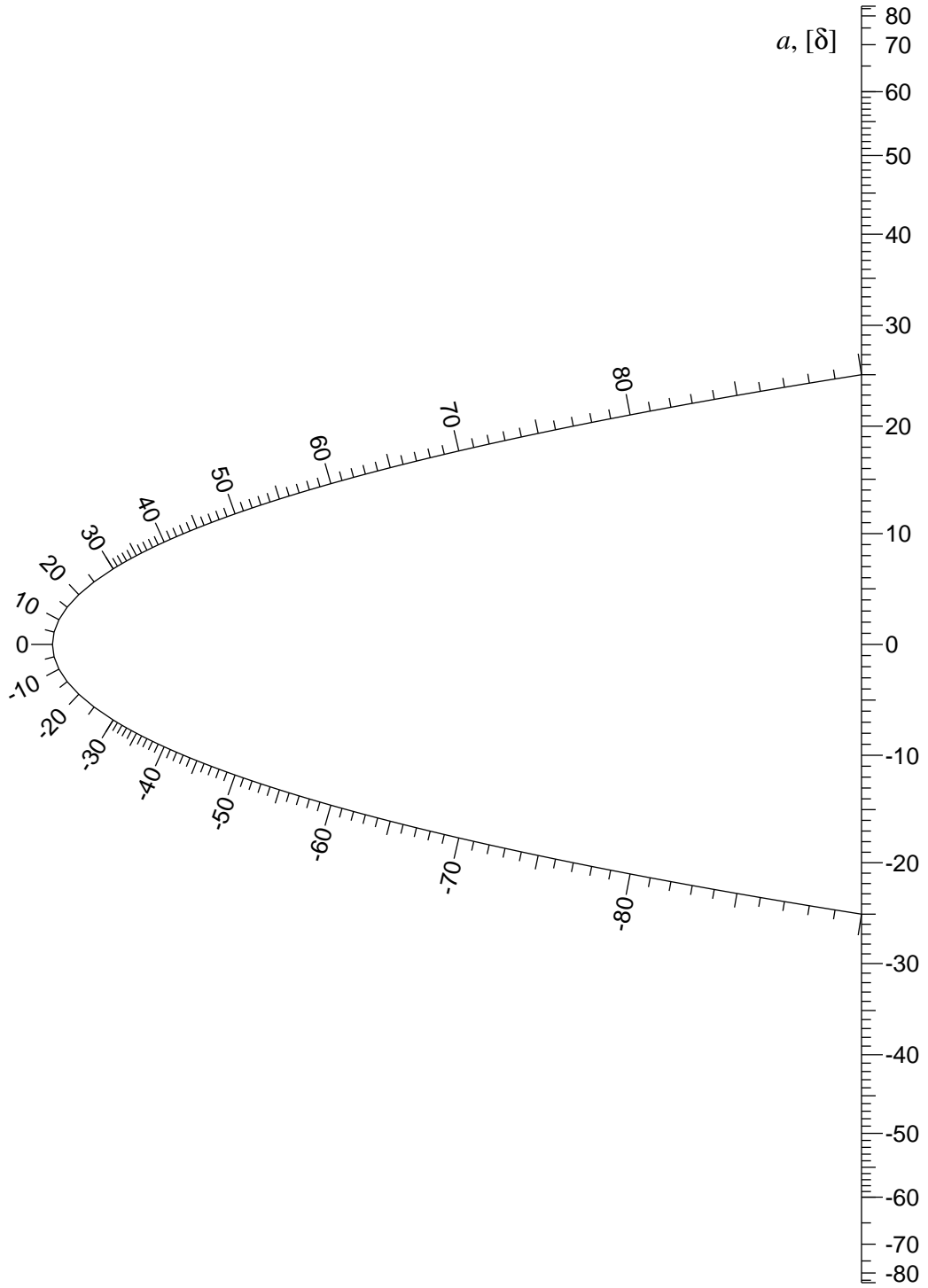


$H, [Az]$

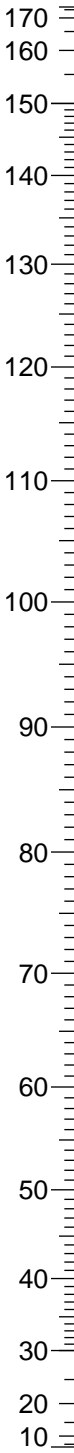
Latitude 25°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

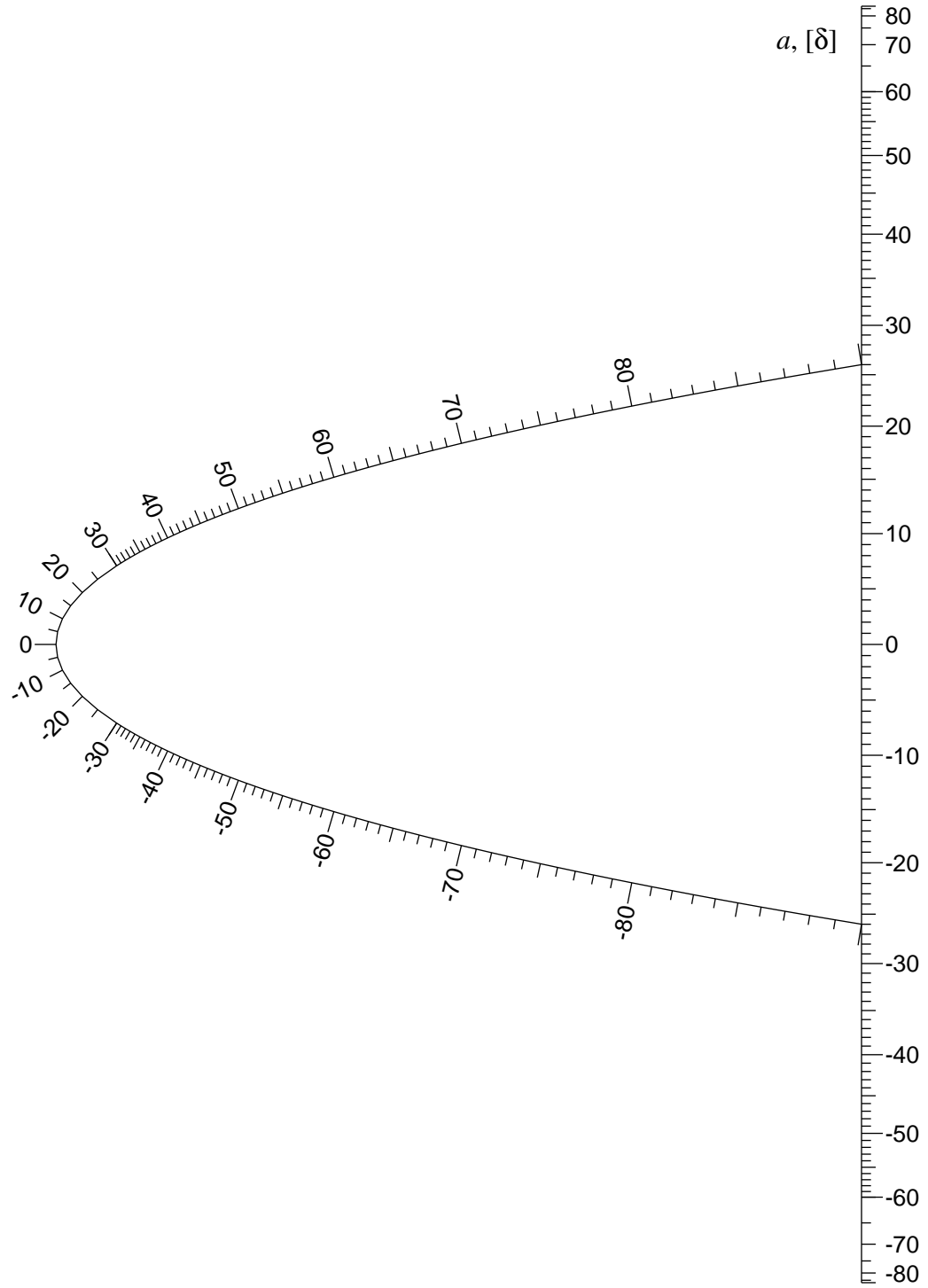


$H, [Az]$

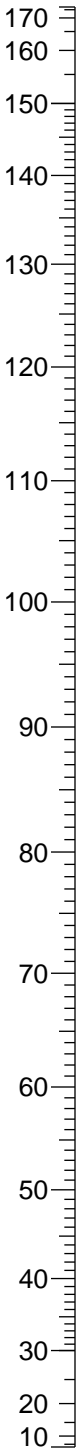
Latitude 26°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

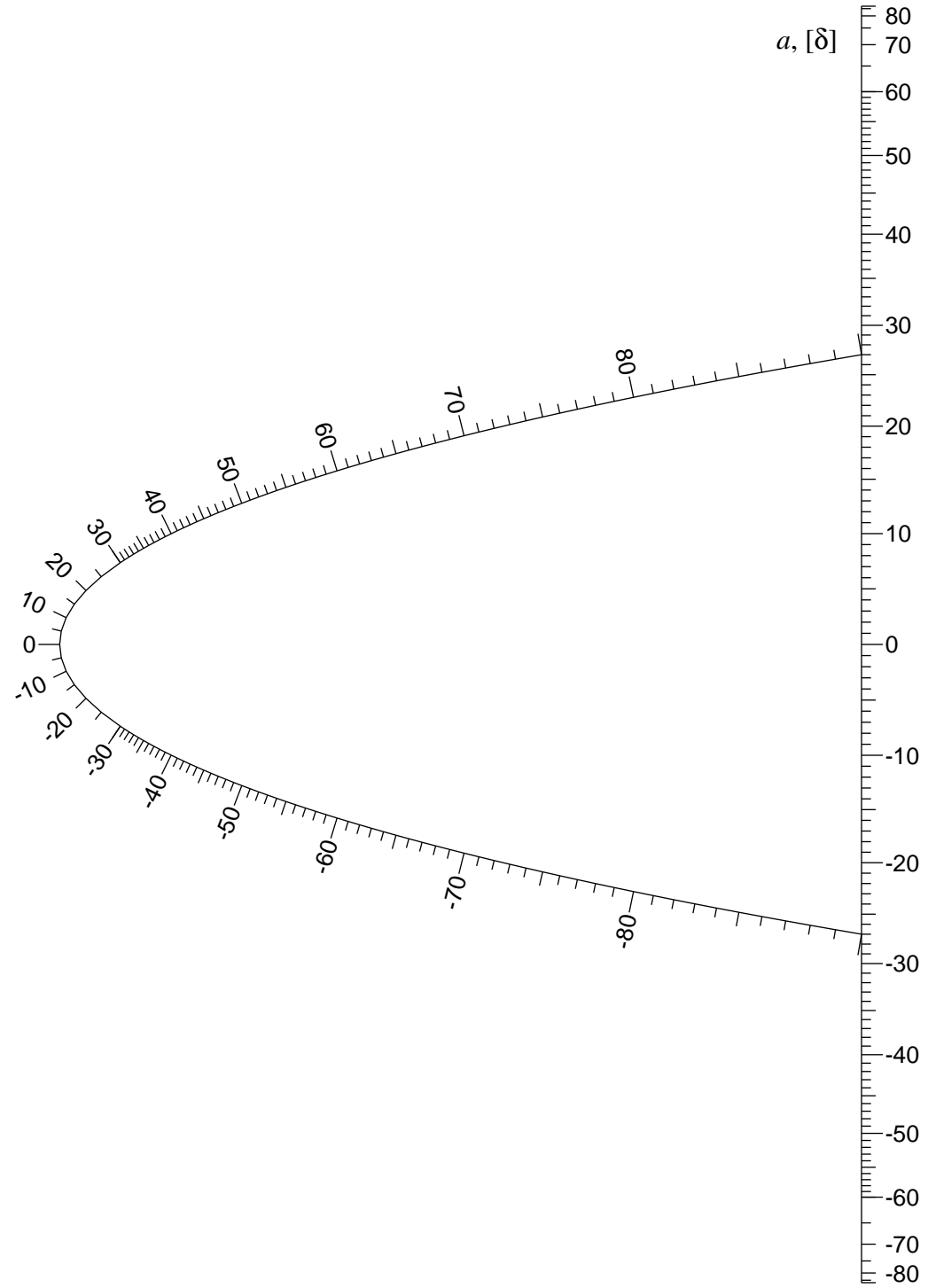


$H, [Az]$

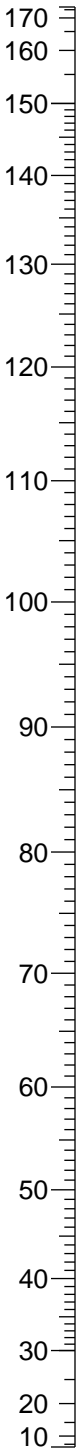
Latitude 27°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

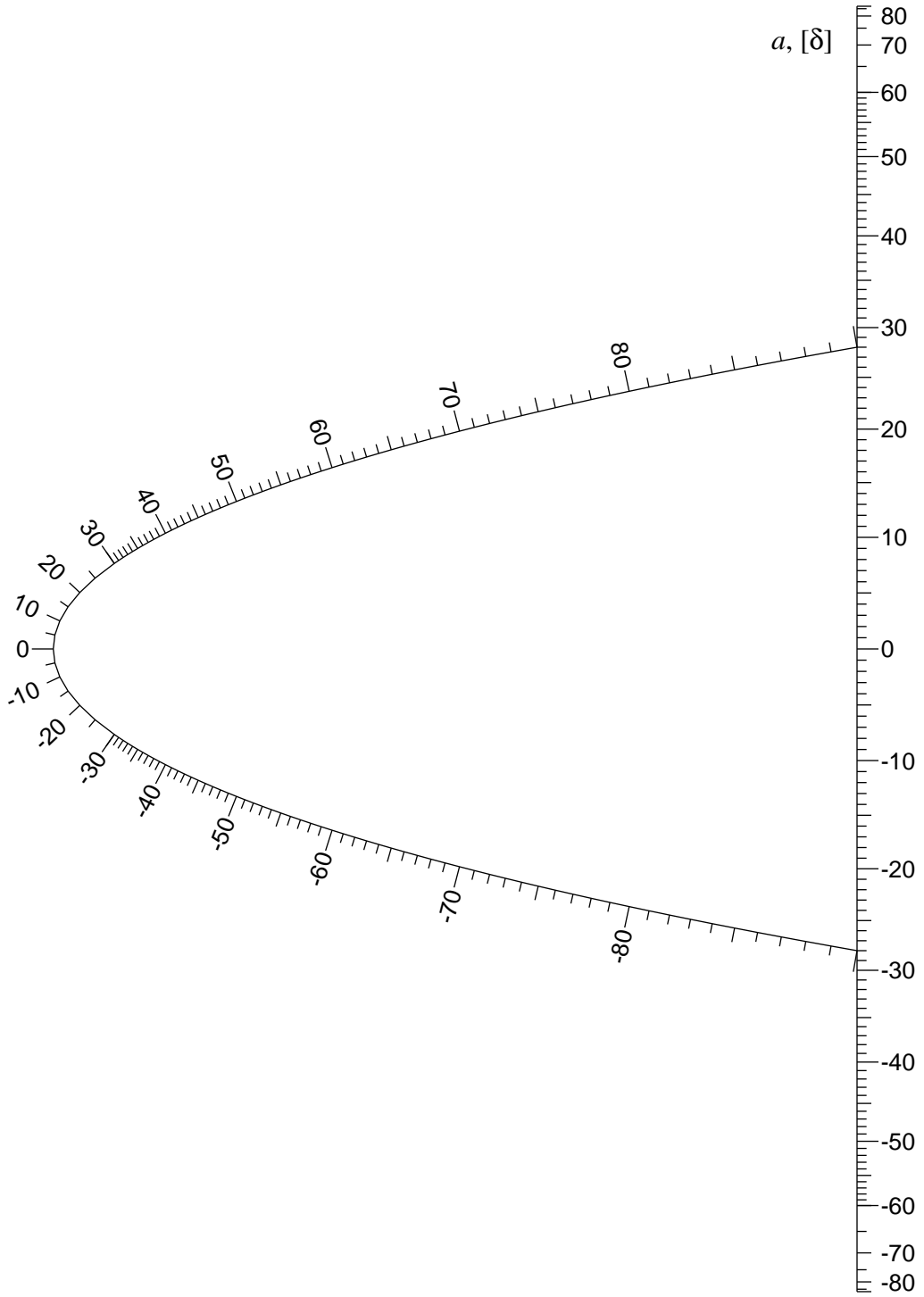


$H, [Az]$

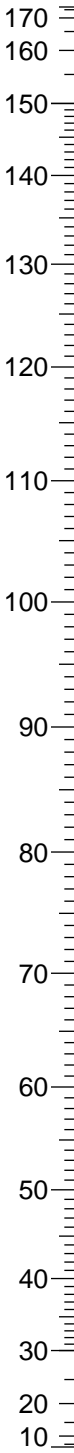
Latitude 28°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

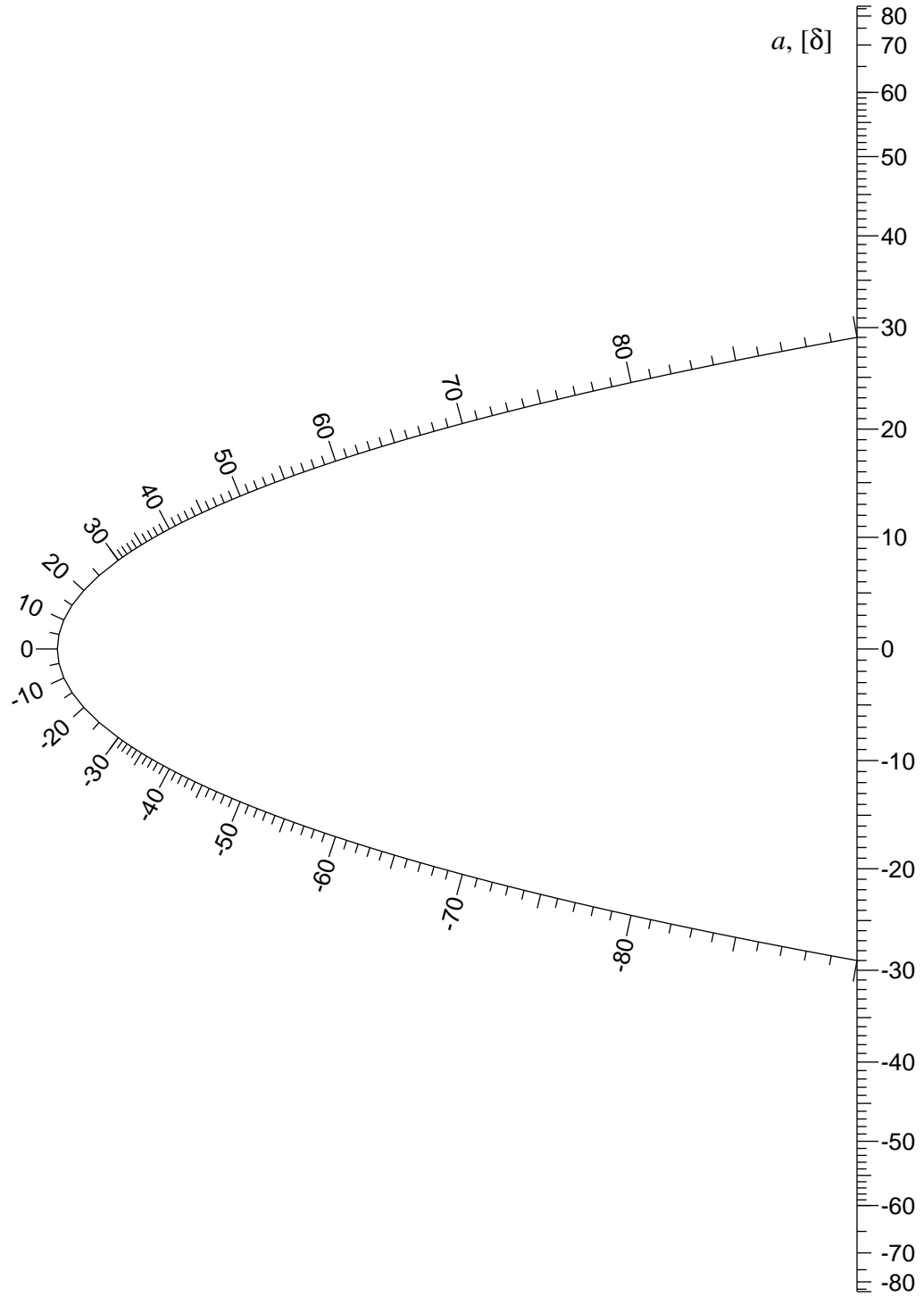


$H, [Az]$

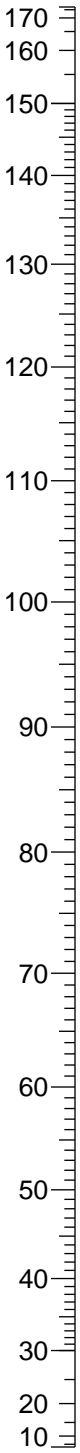
Latitude 29°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

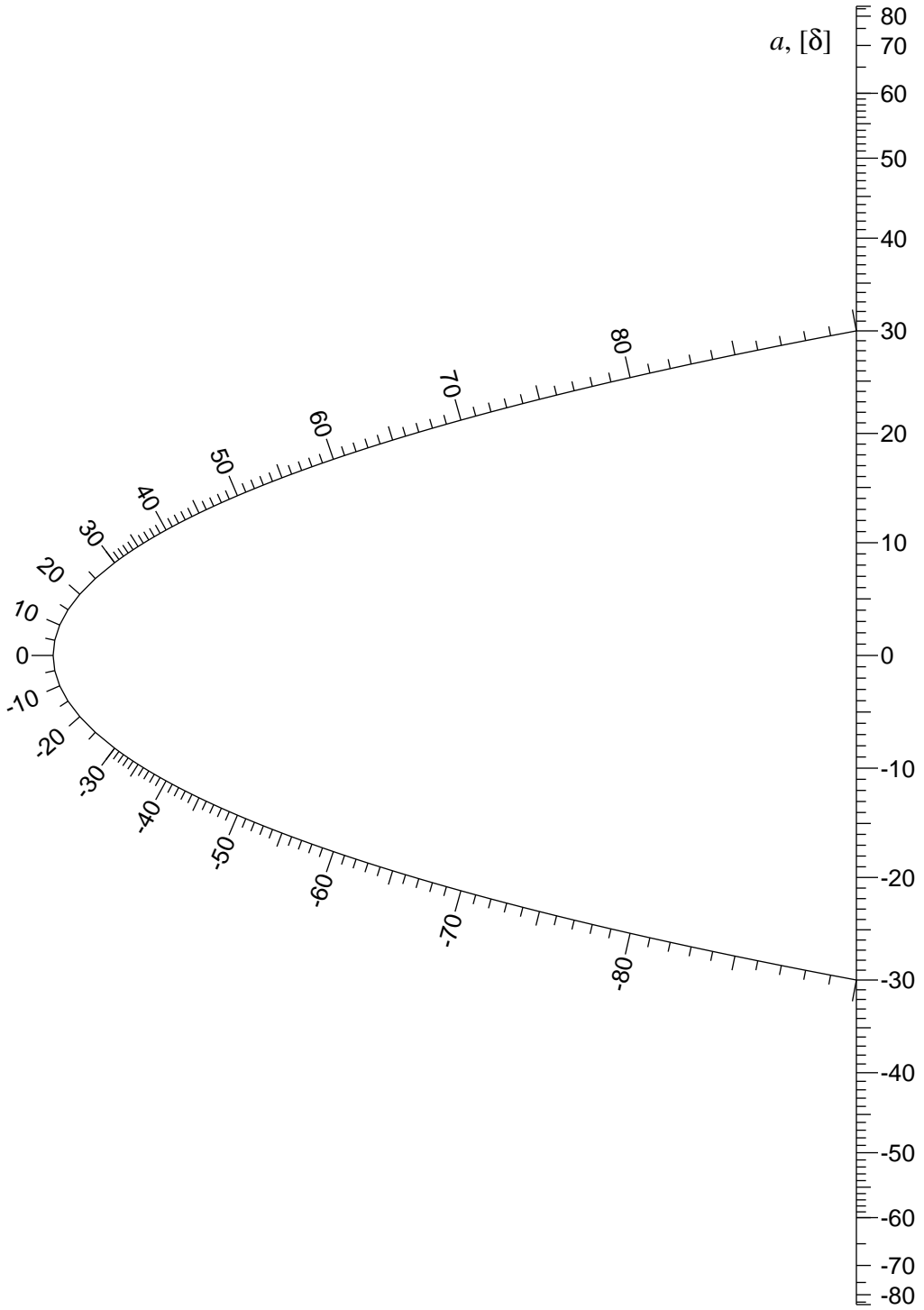


$H, [Az]$

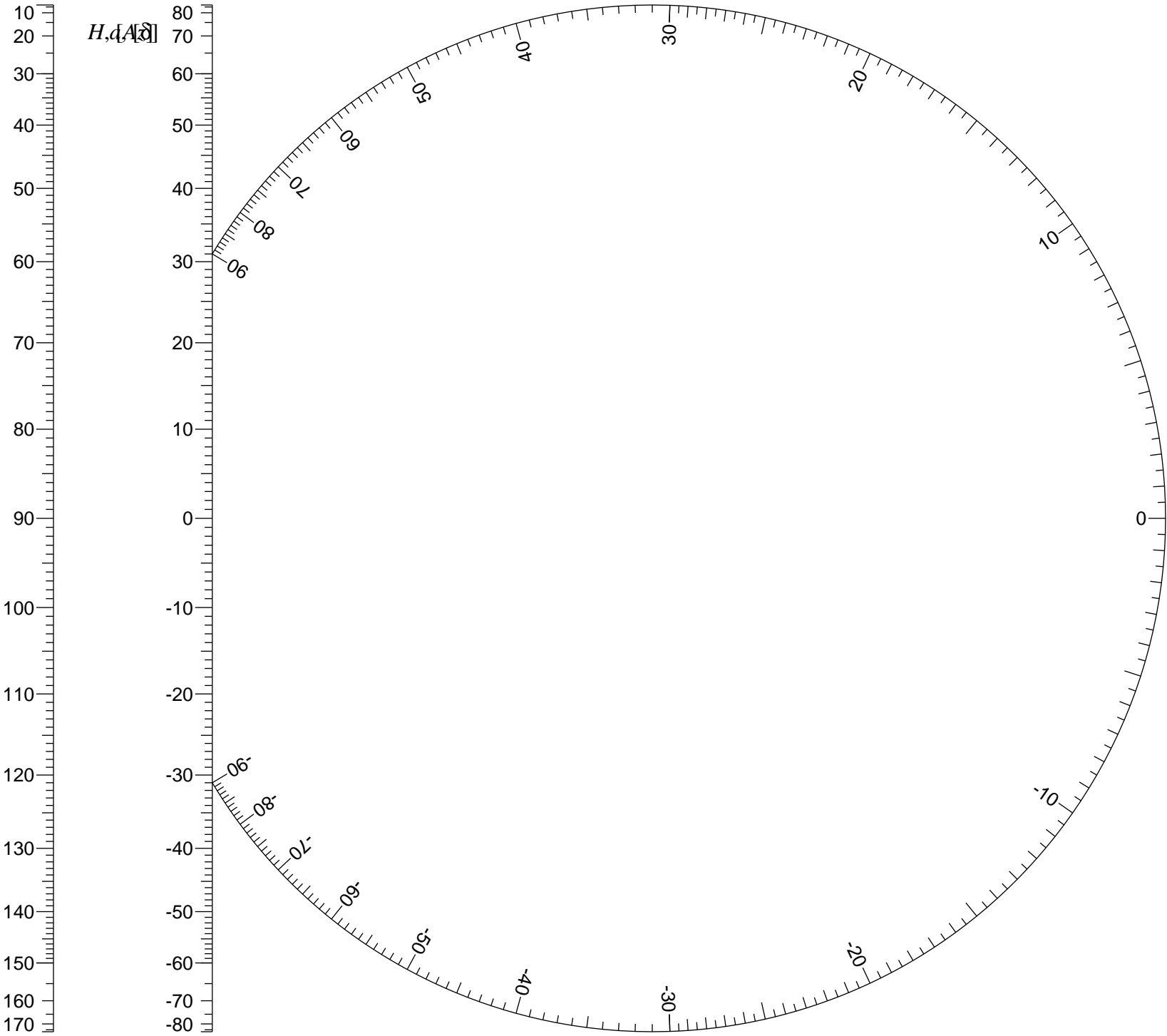
Latitude 30°

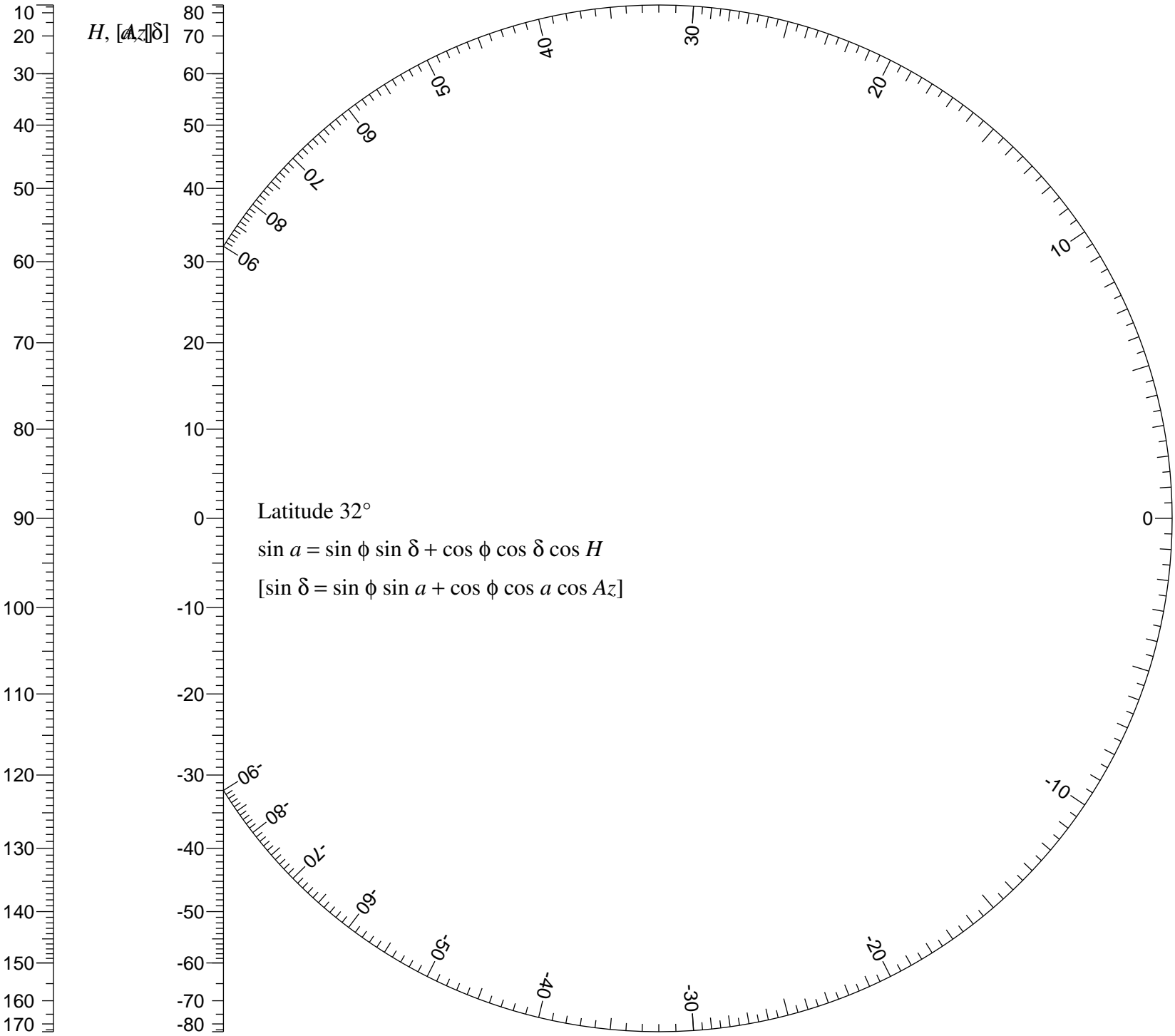
$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

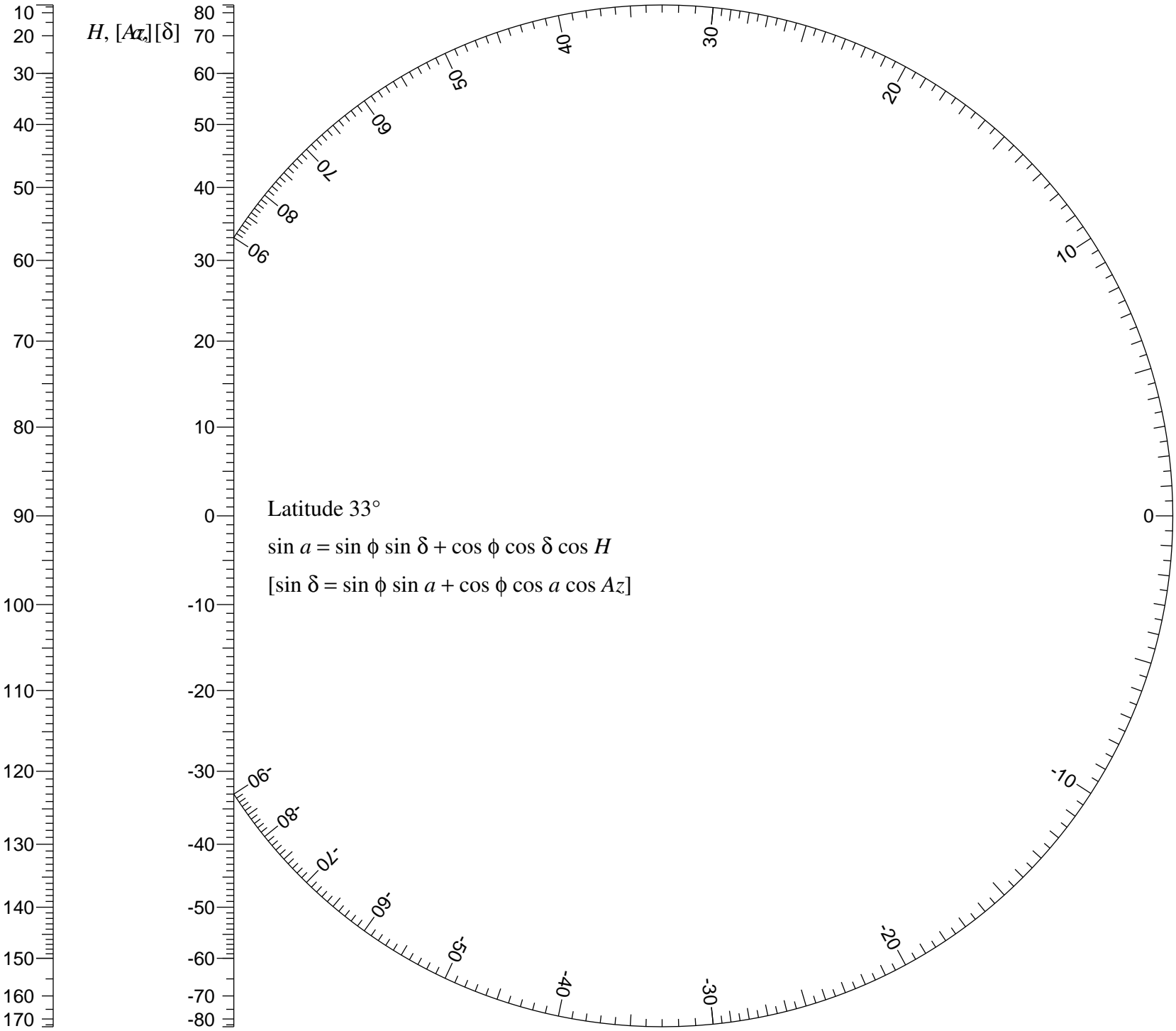
$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$

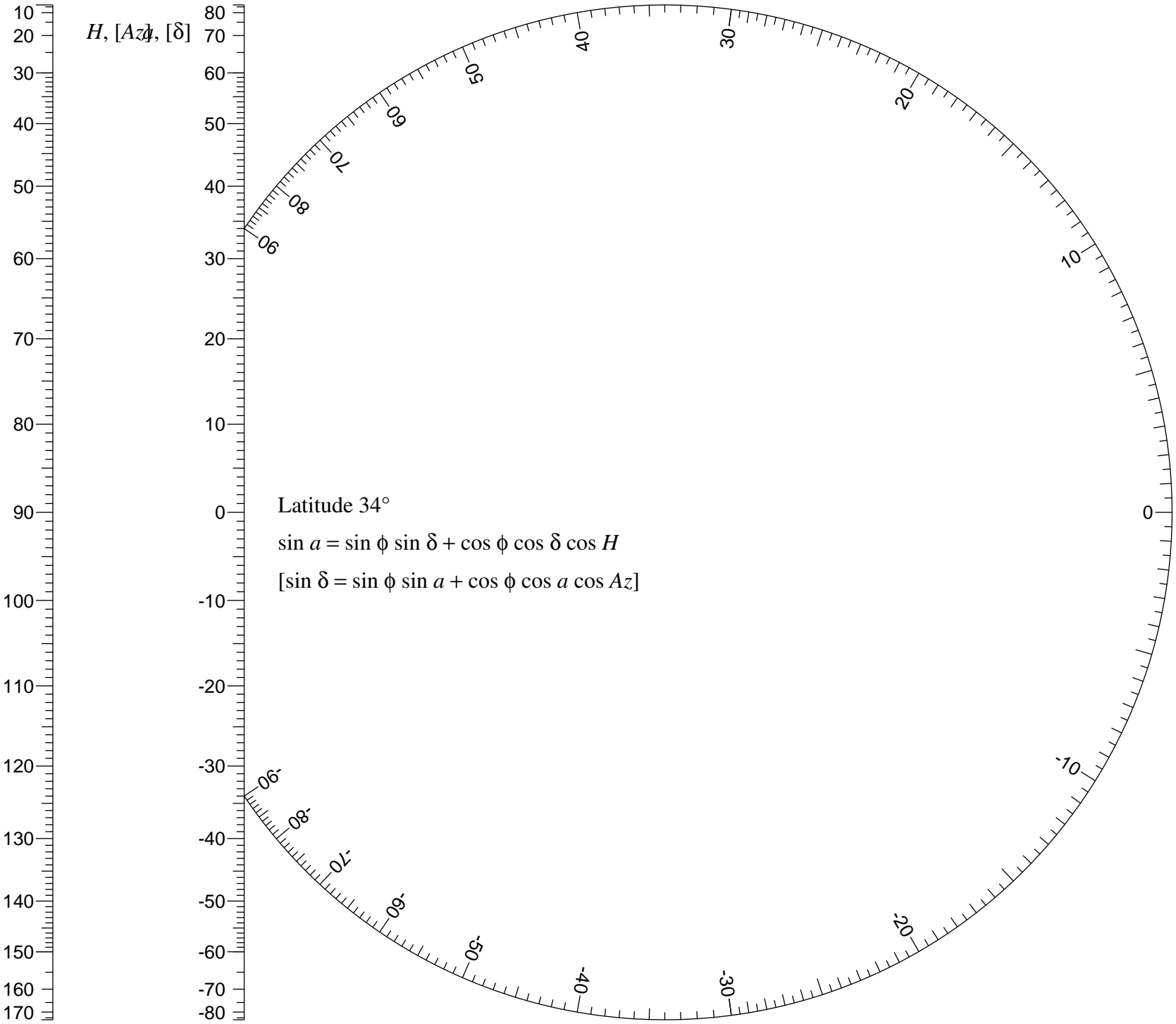


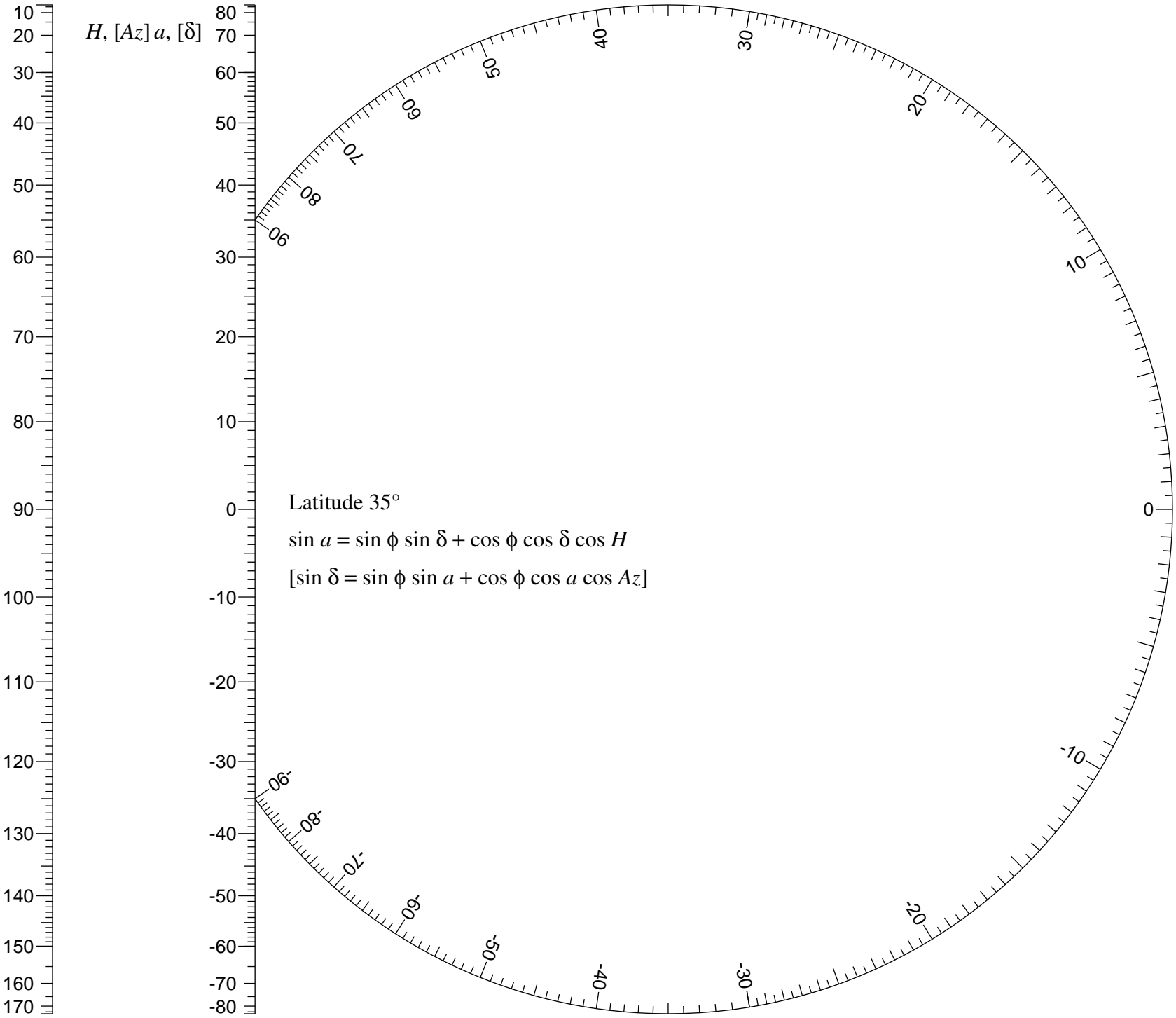
$a, [\delta]$

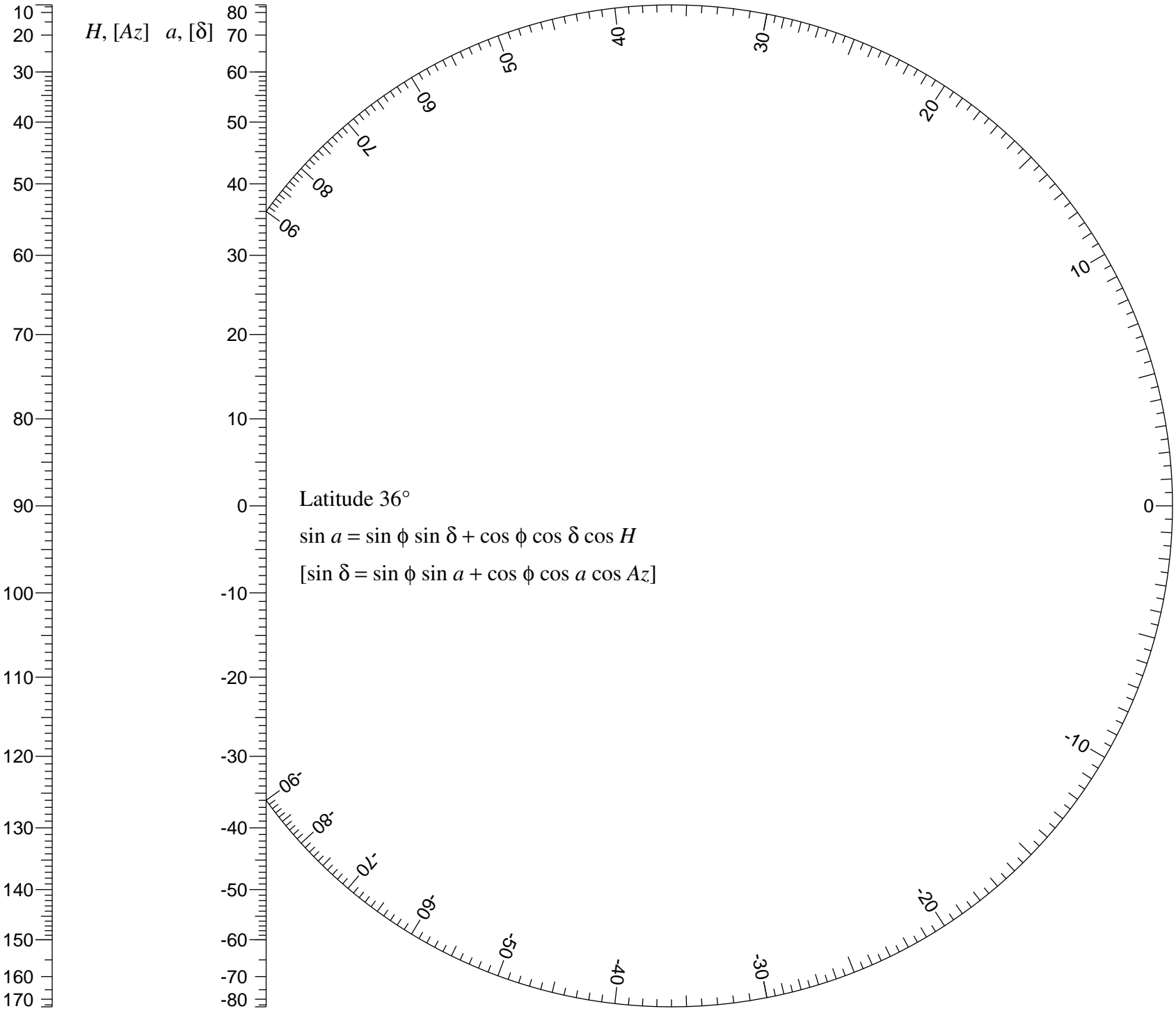


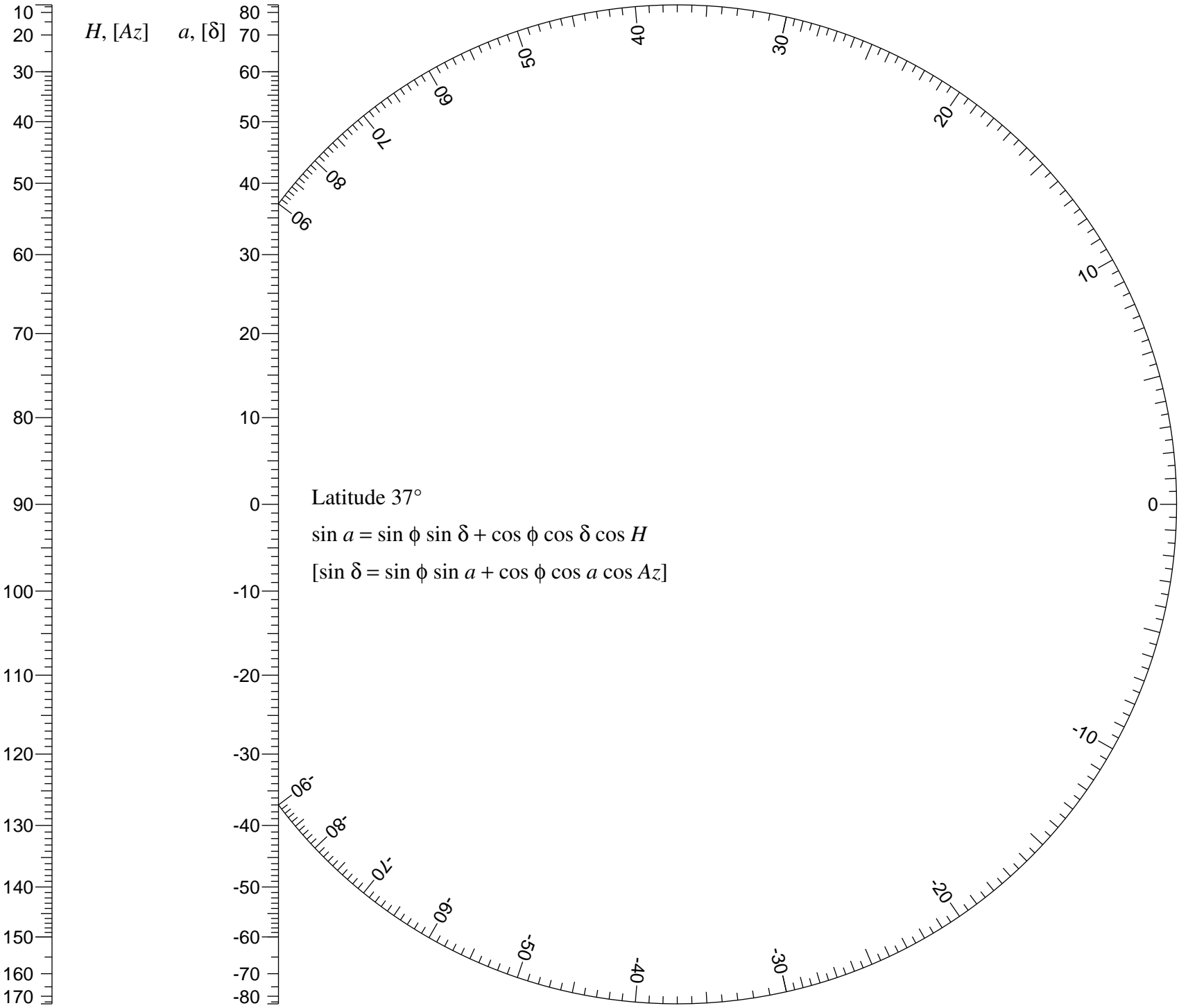


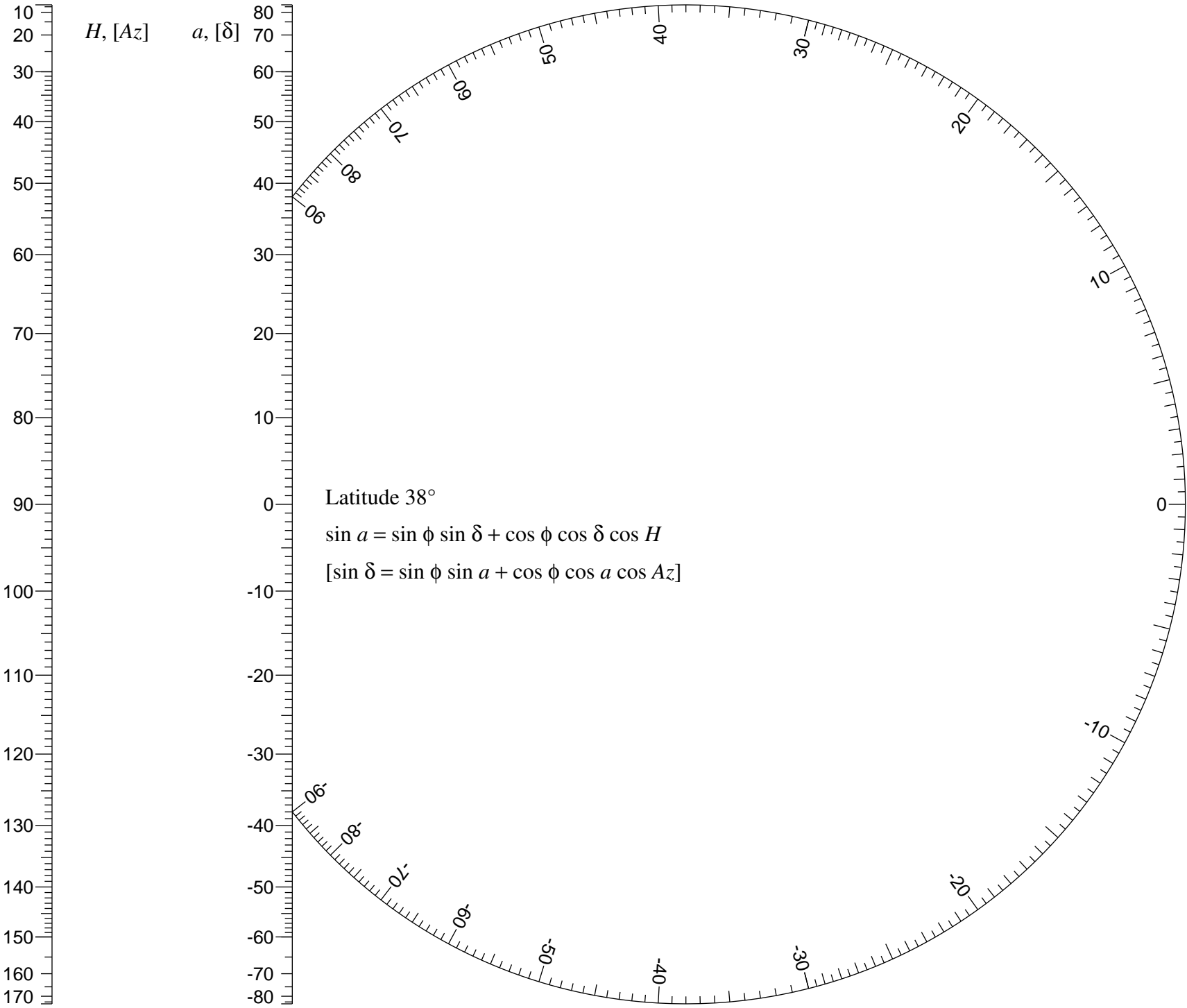


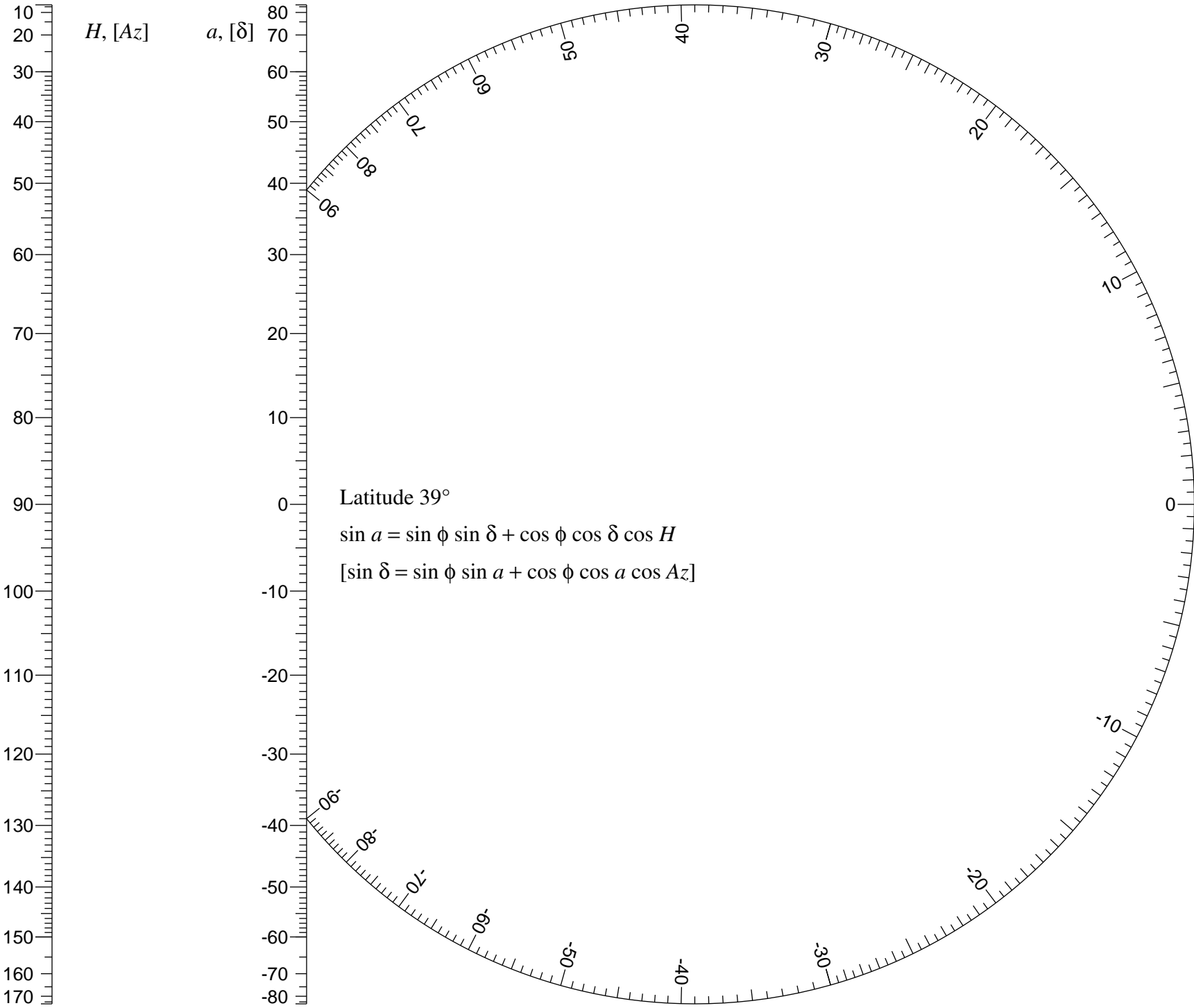








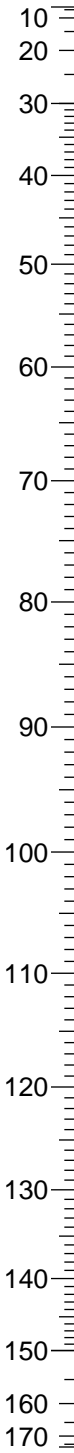




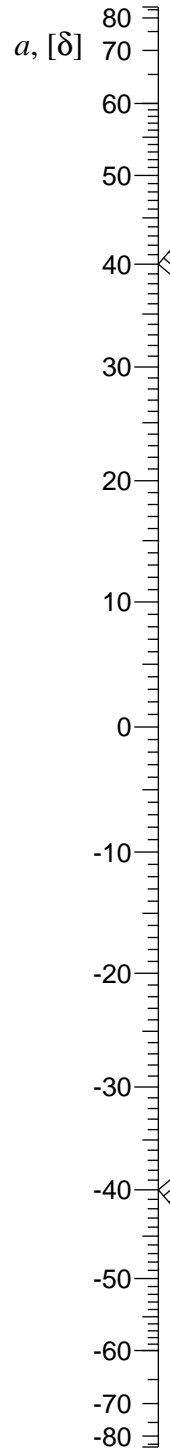
Latitude 39°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$H, [Az]$

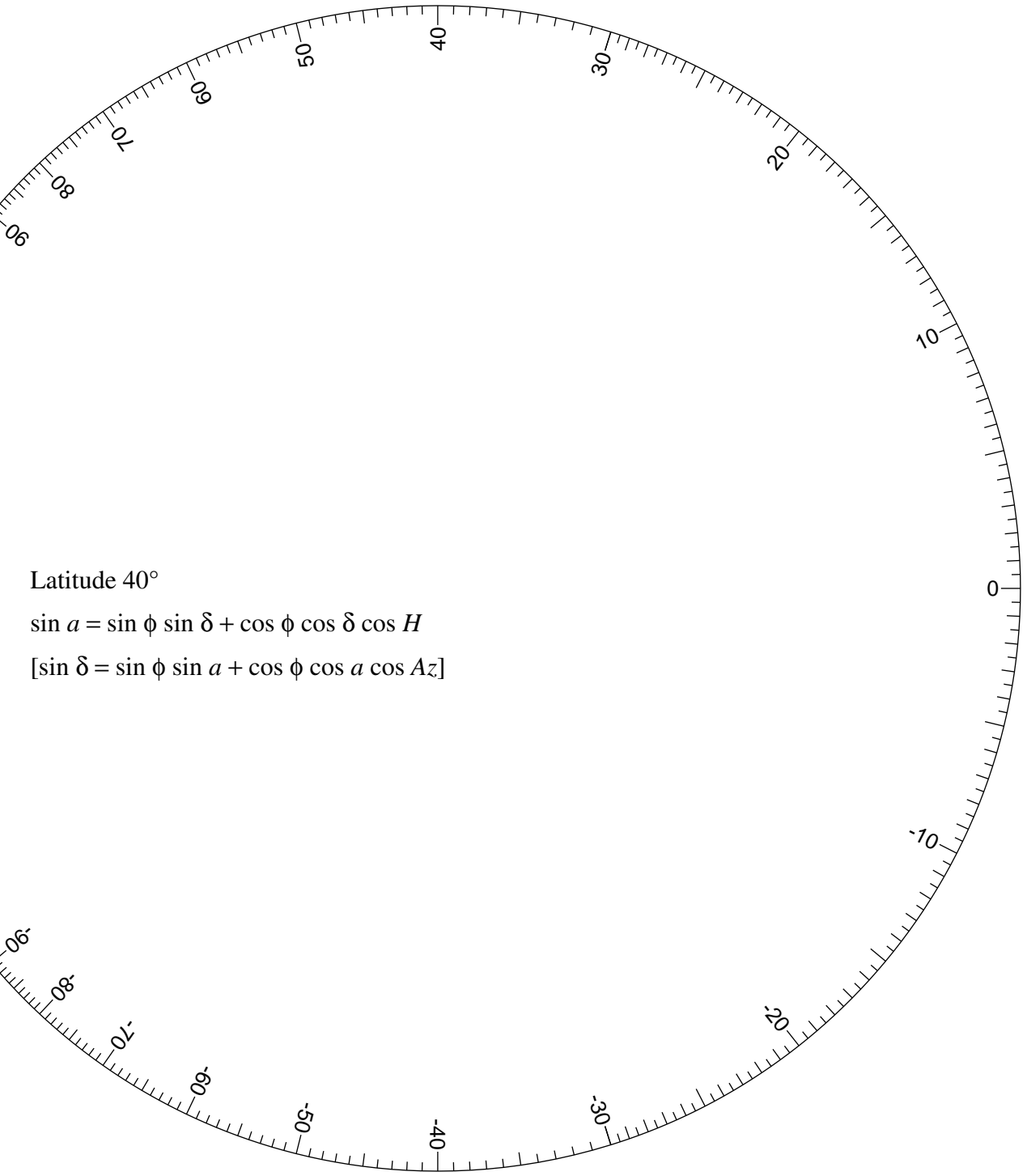


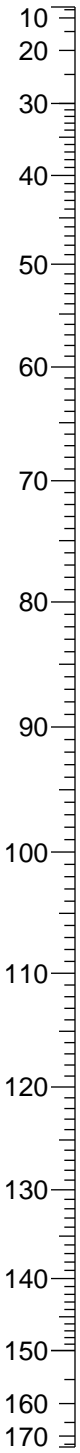
$a, [\delta]$

Latitude 40°

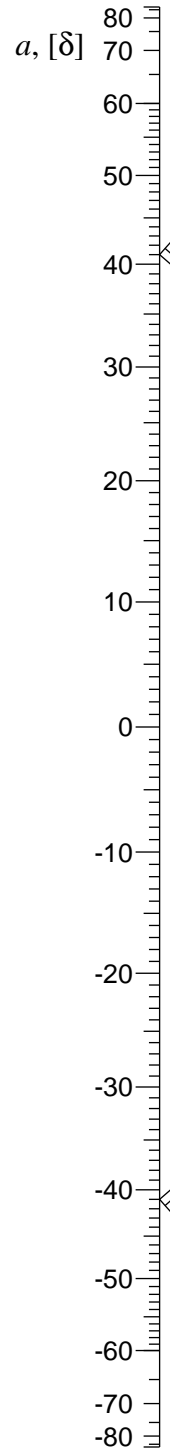
$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$





$H, [Az]$

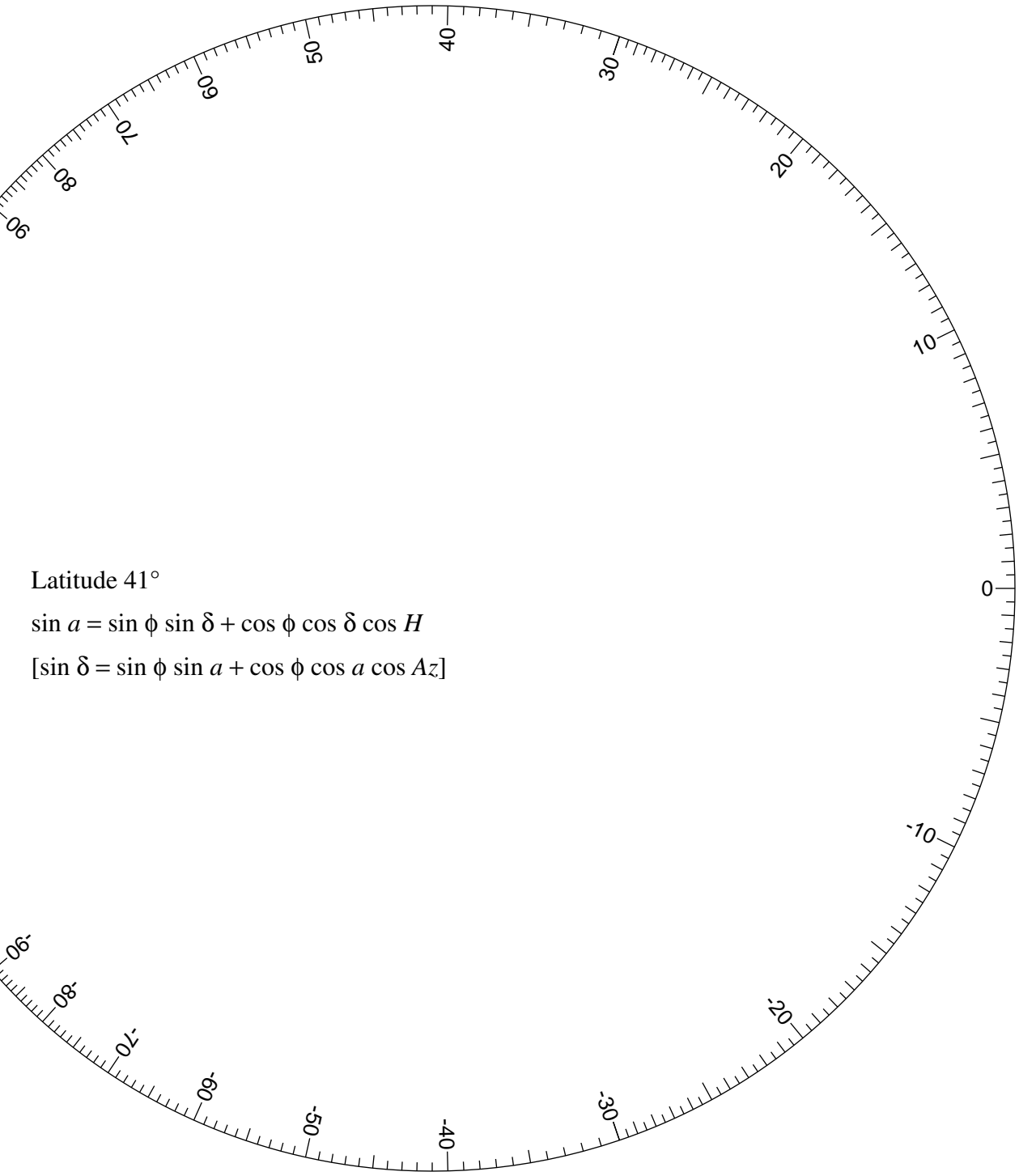


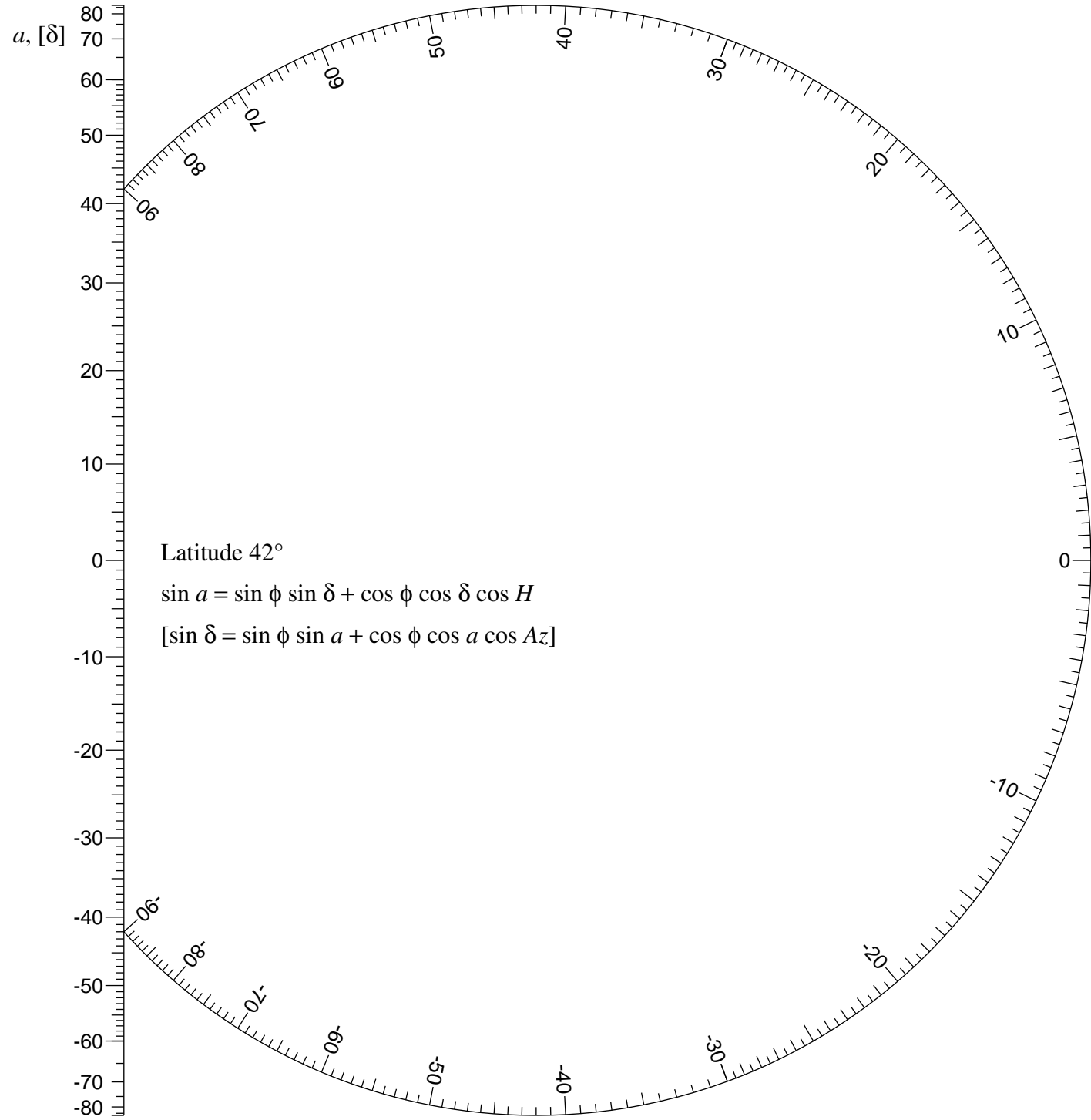
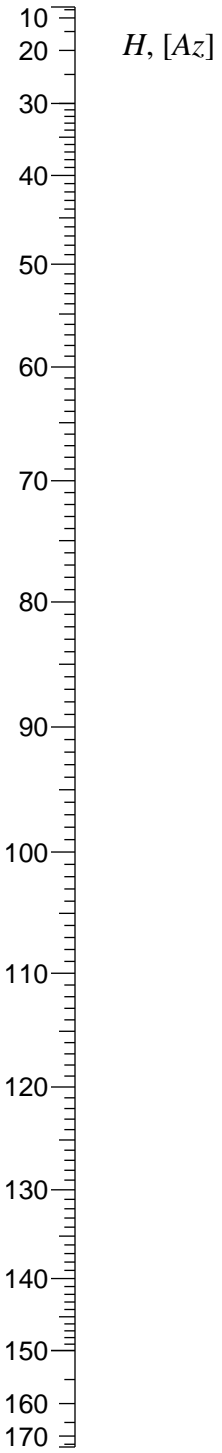
$a, [\delta]$

Latitude 41°

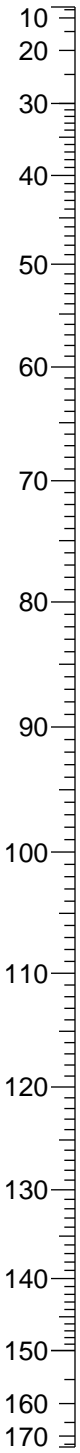
$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$

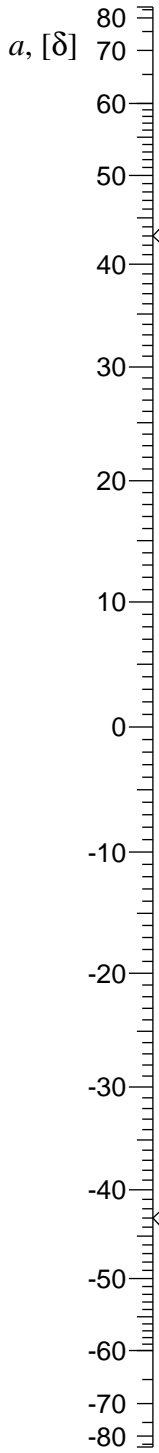




Latitude 42°
 $\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$
 $[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$



$H, [Az]$

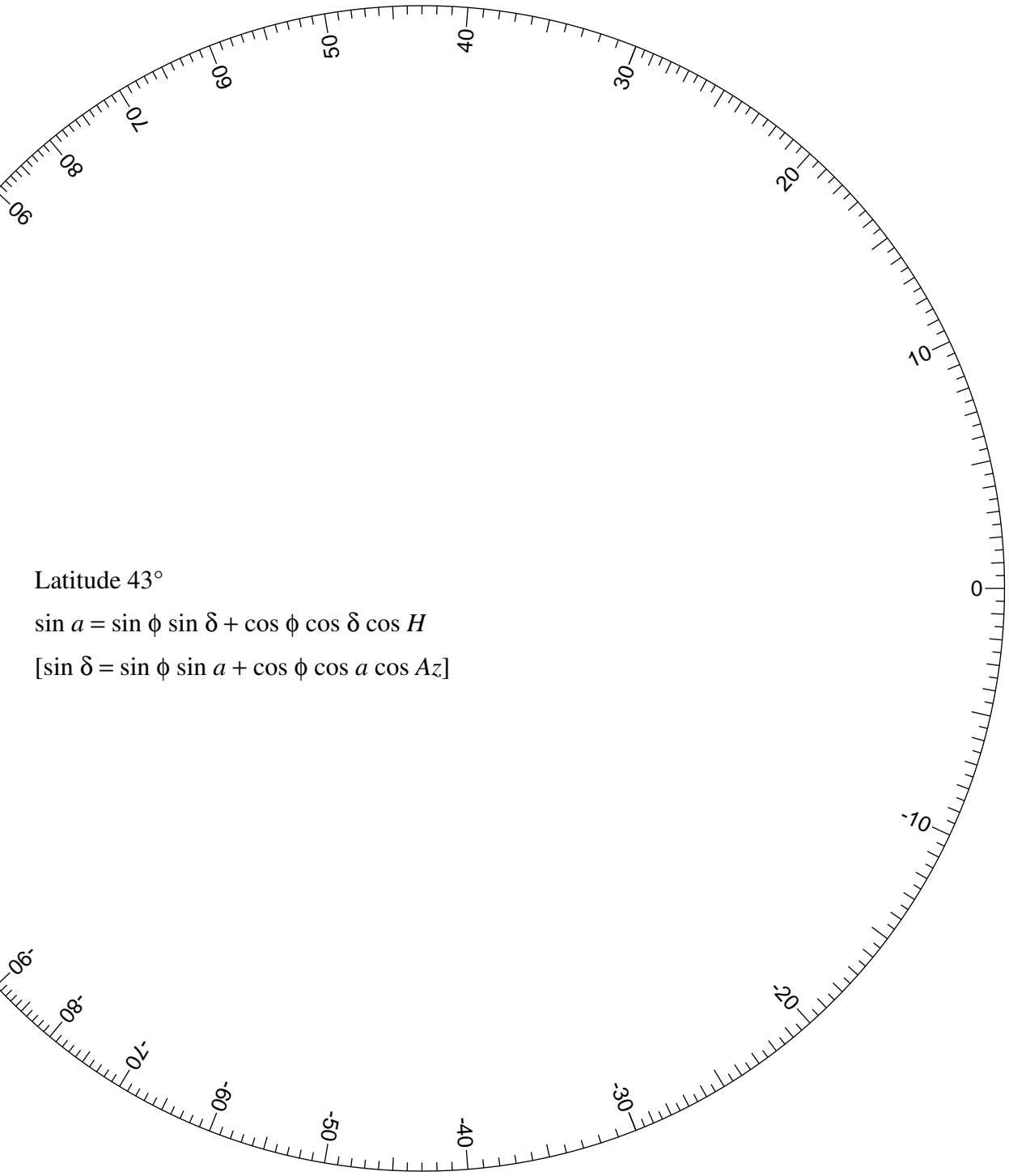


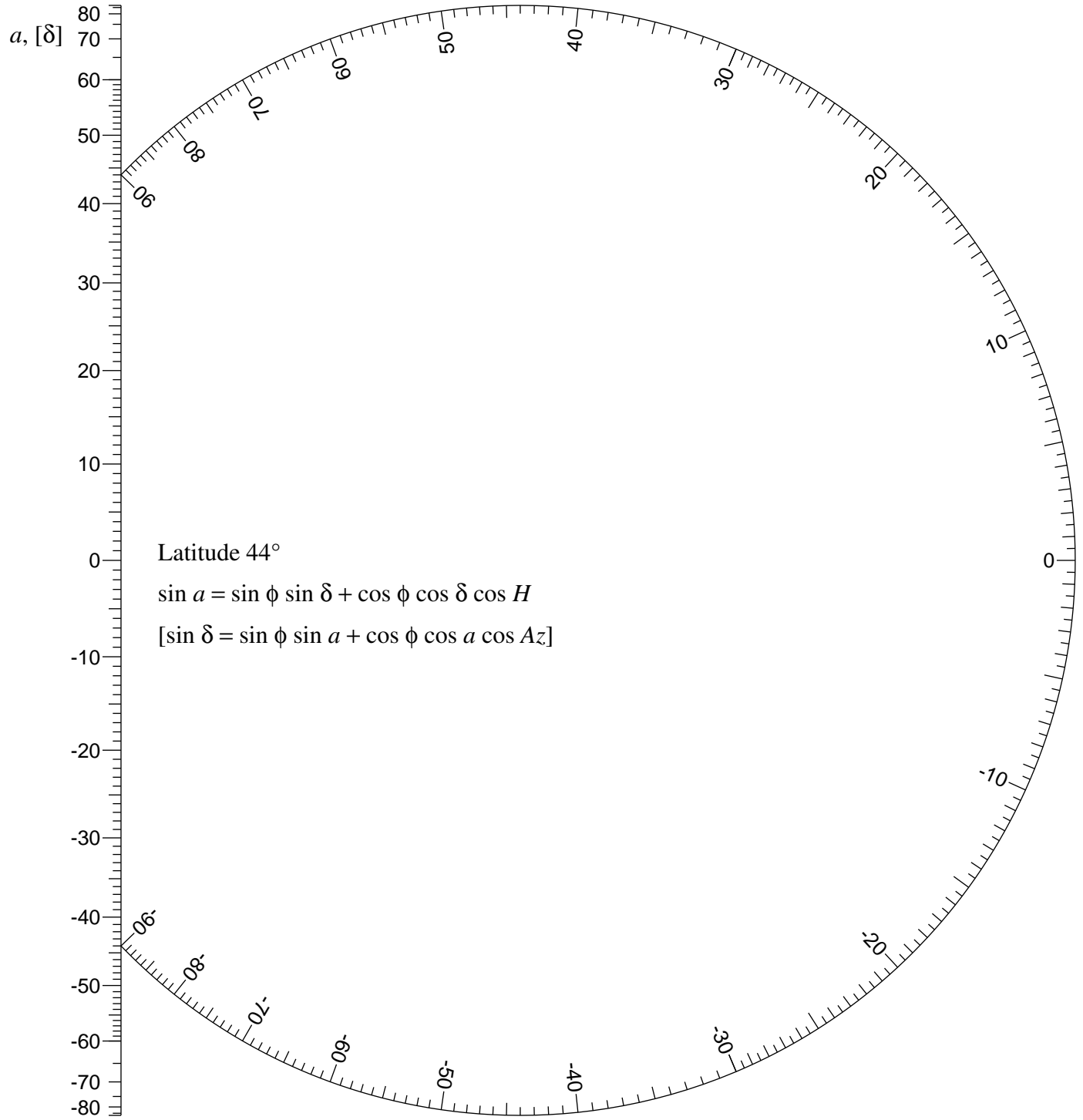
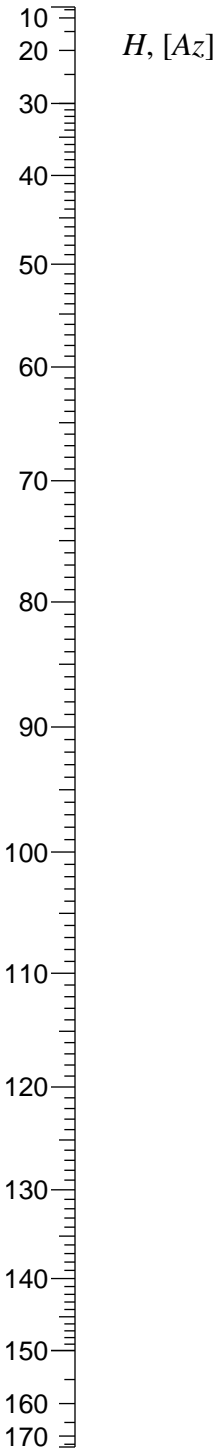
$a, [\delta]$

Latitude 43°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

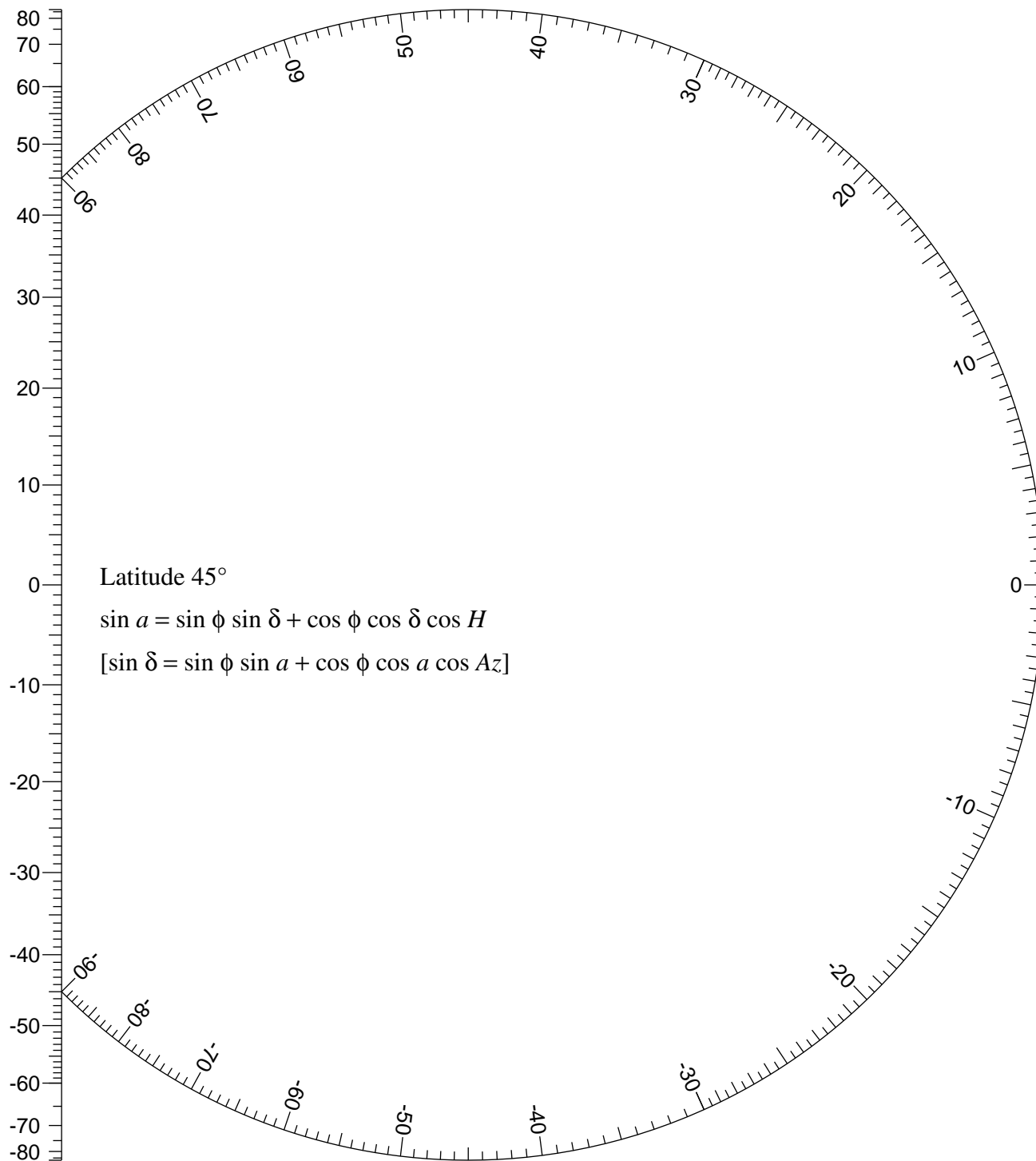
$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$

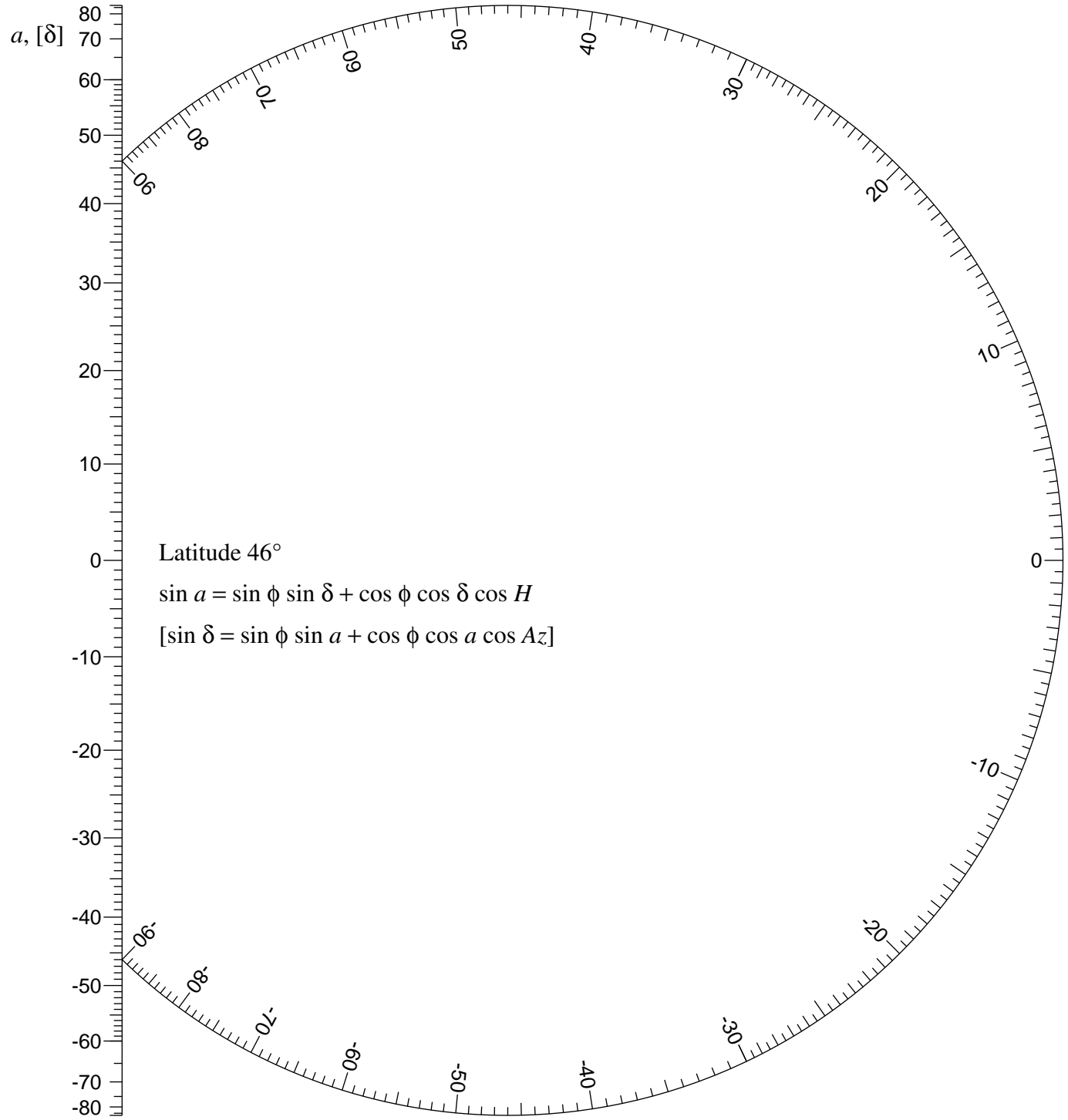
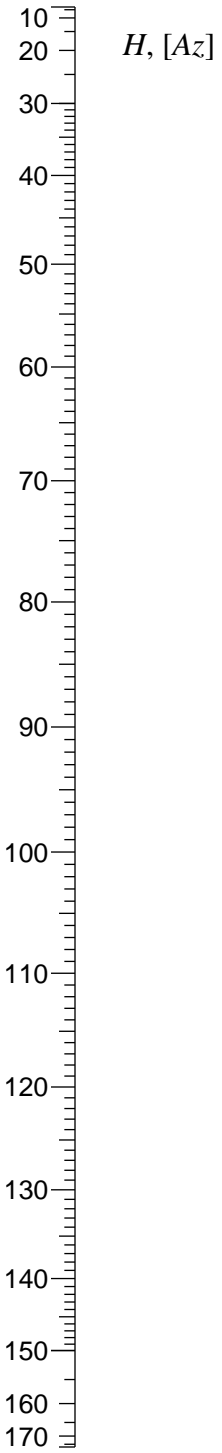


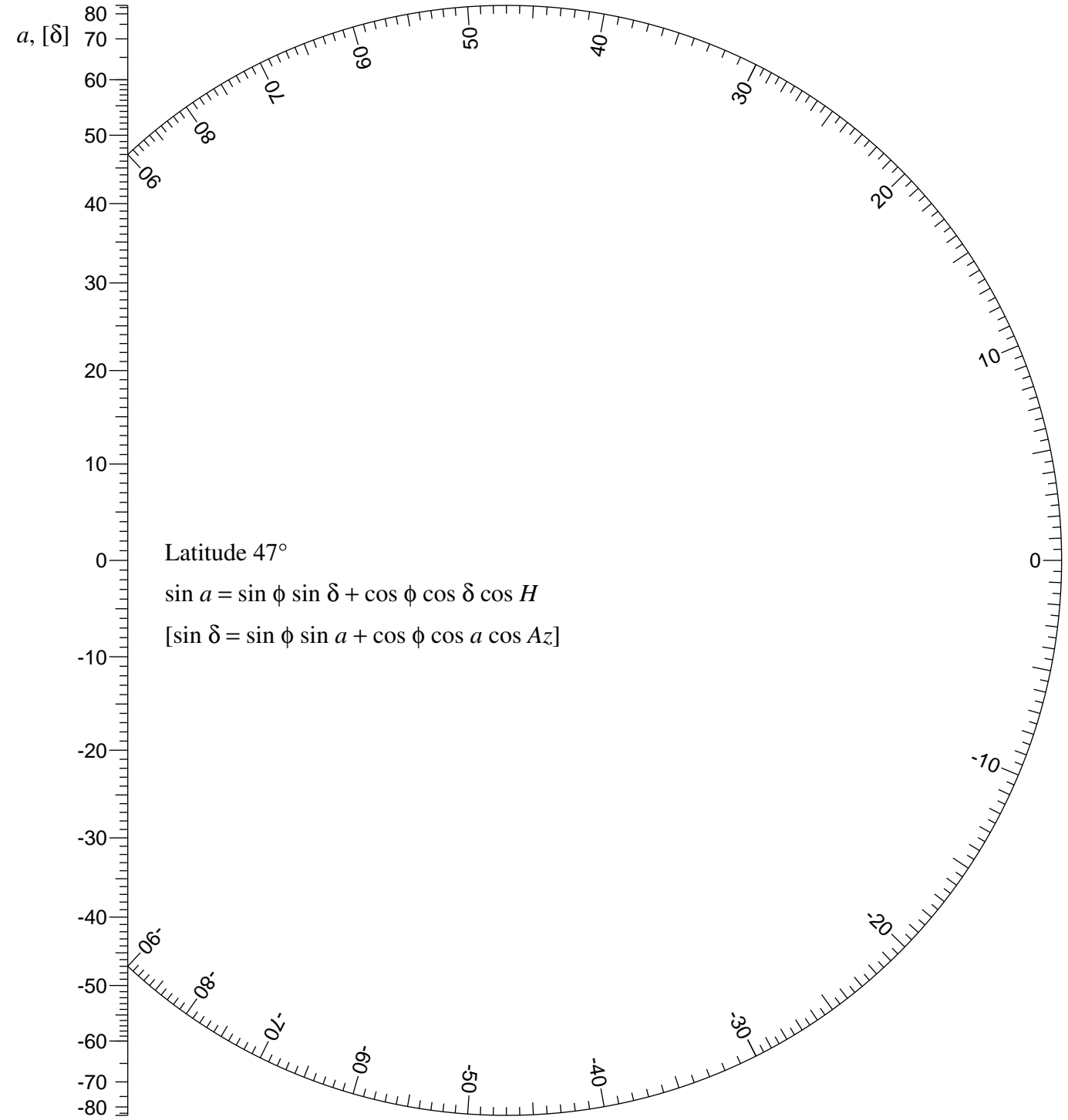
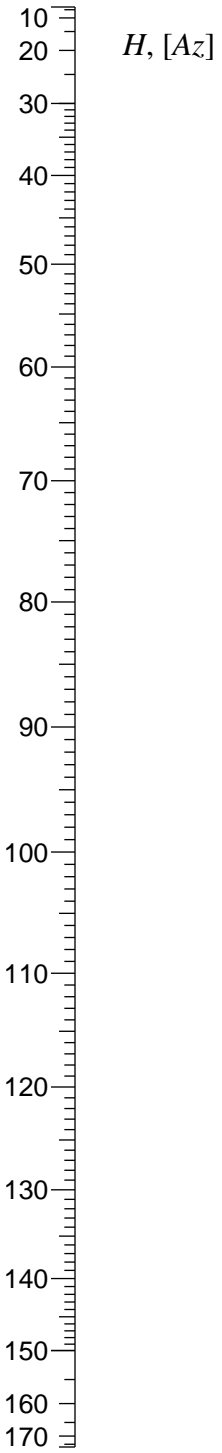


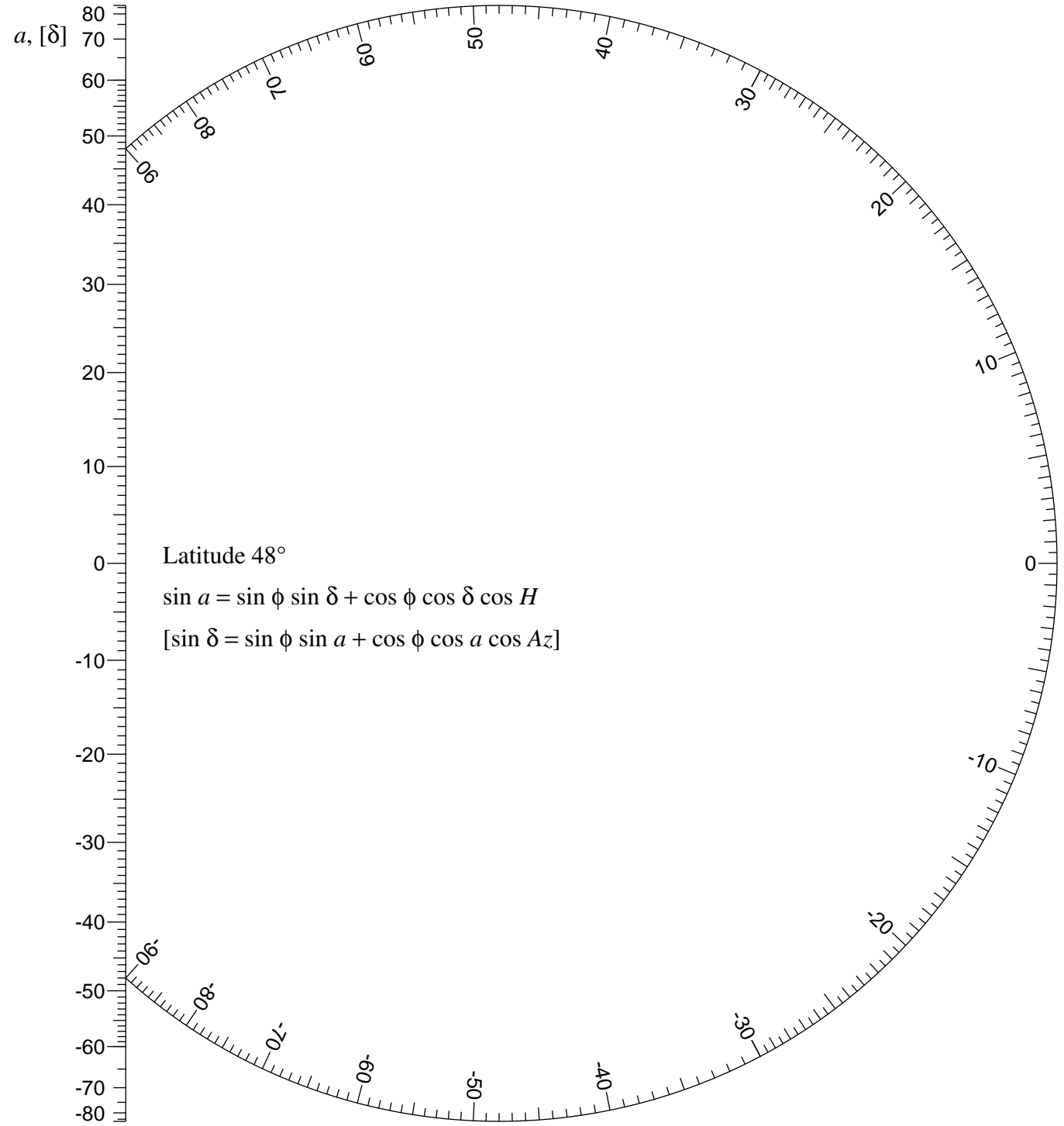
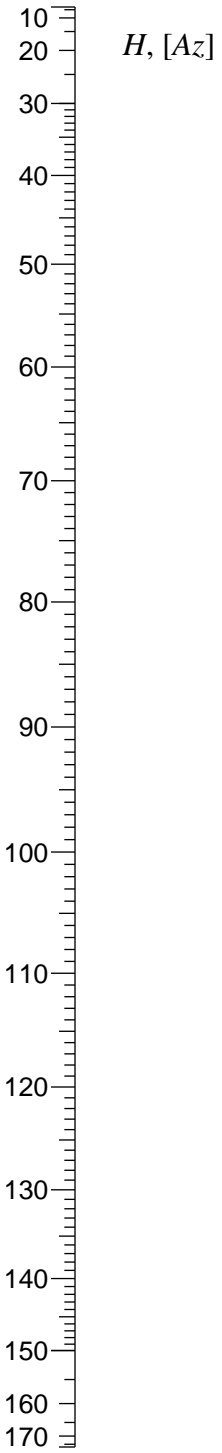
$H, [Az]$

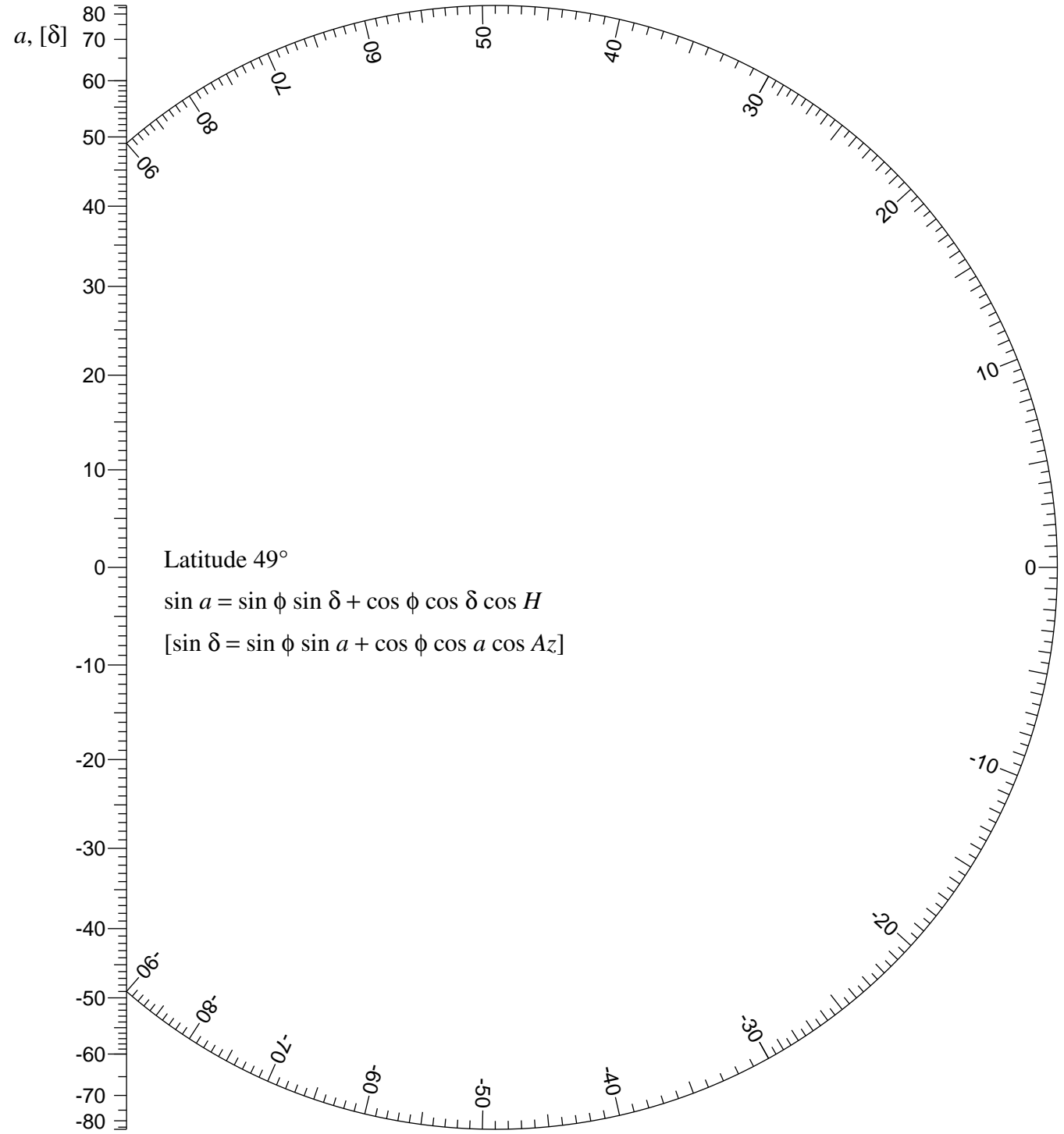
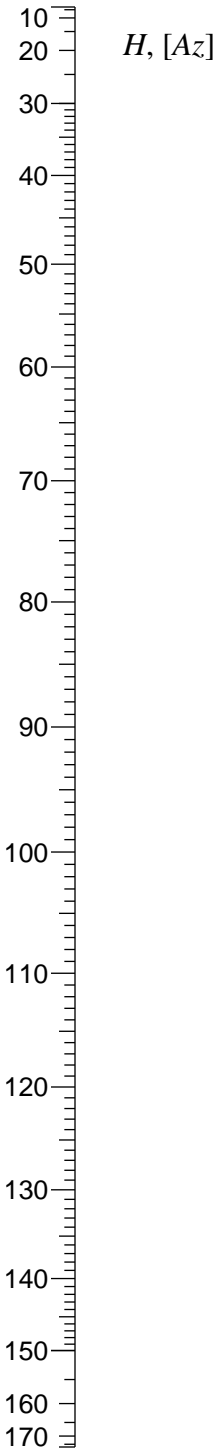
$a, [\delta]$

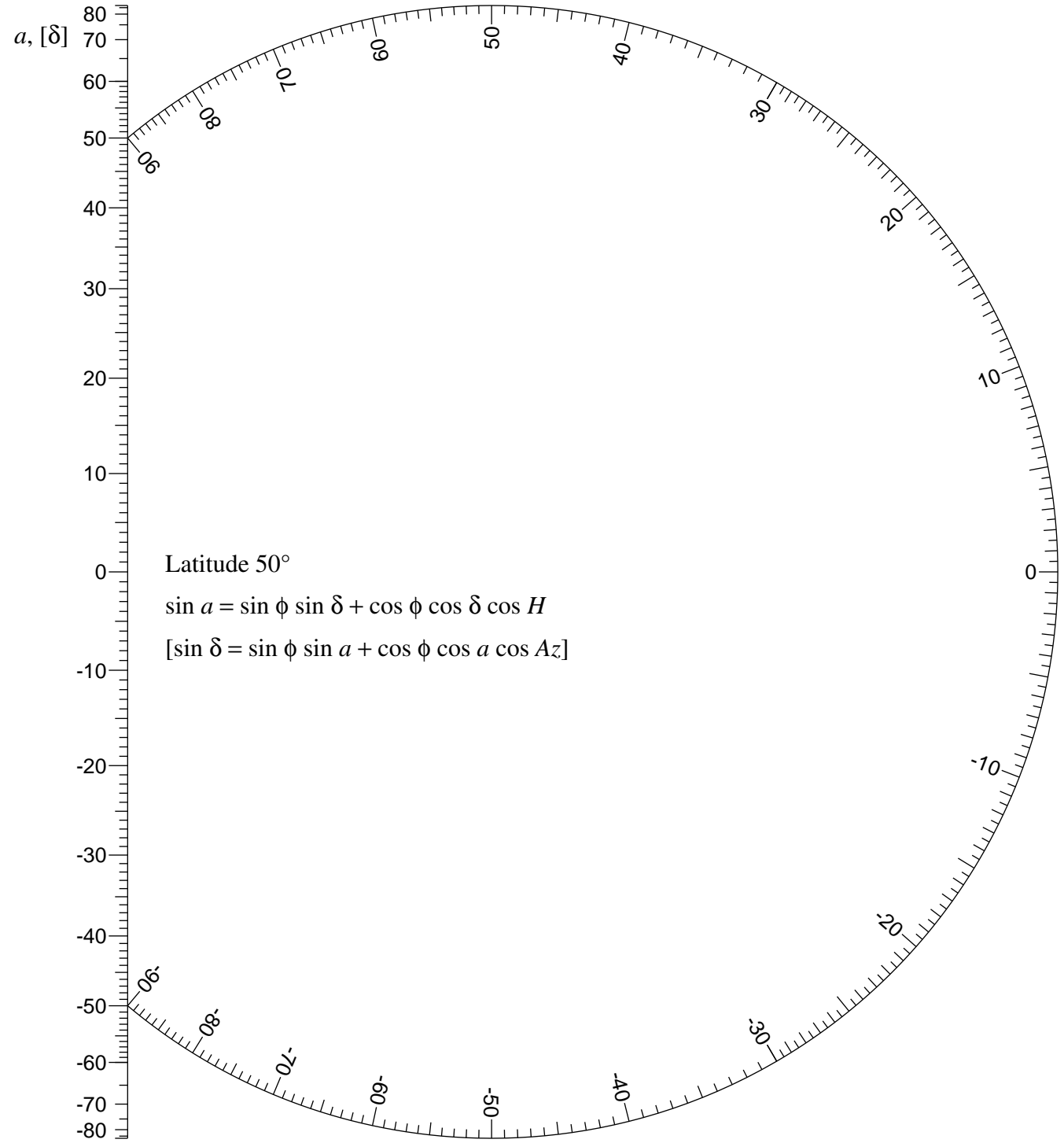
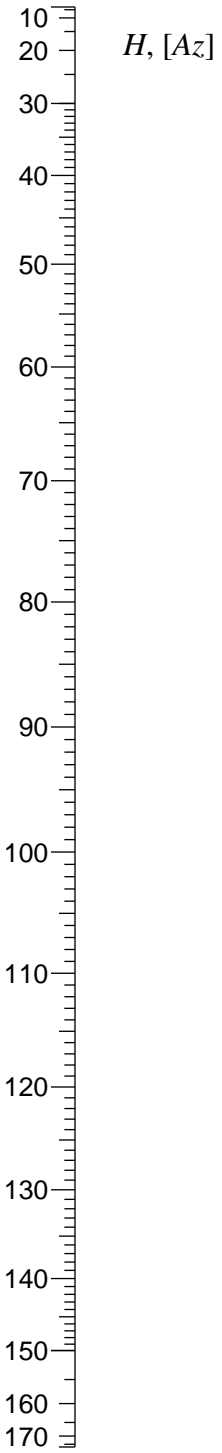


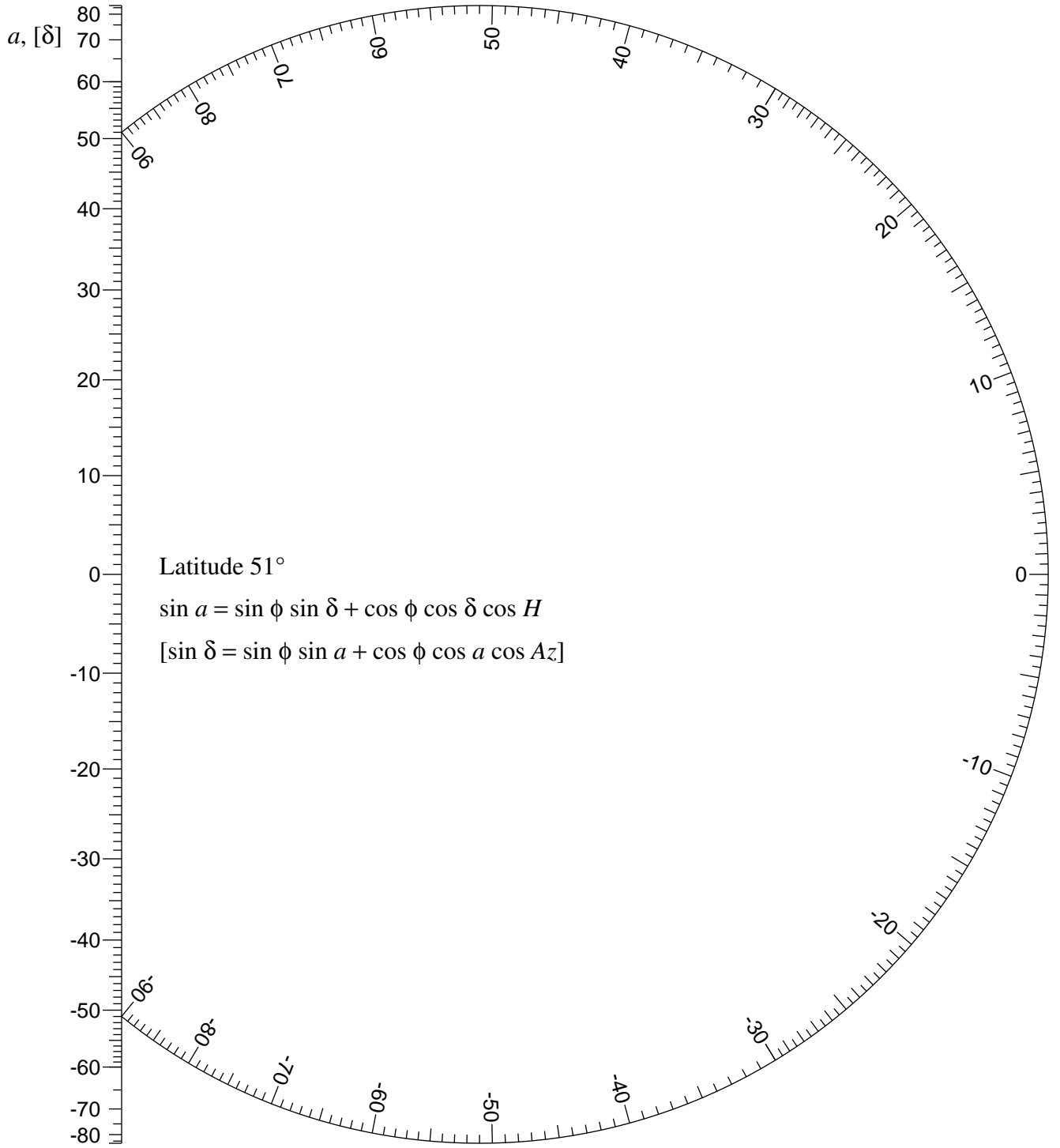
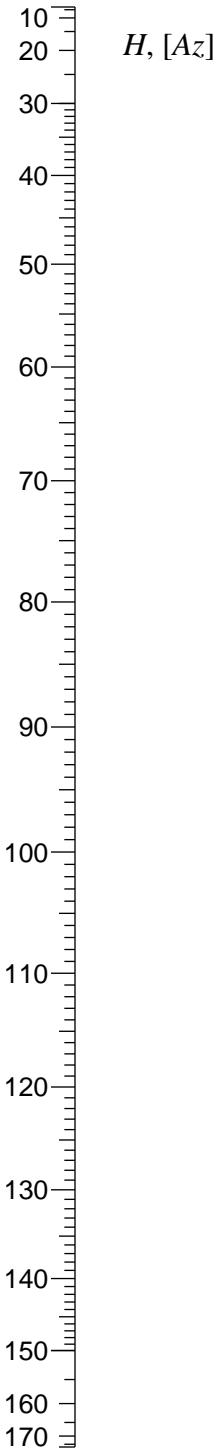


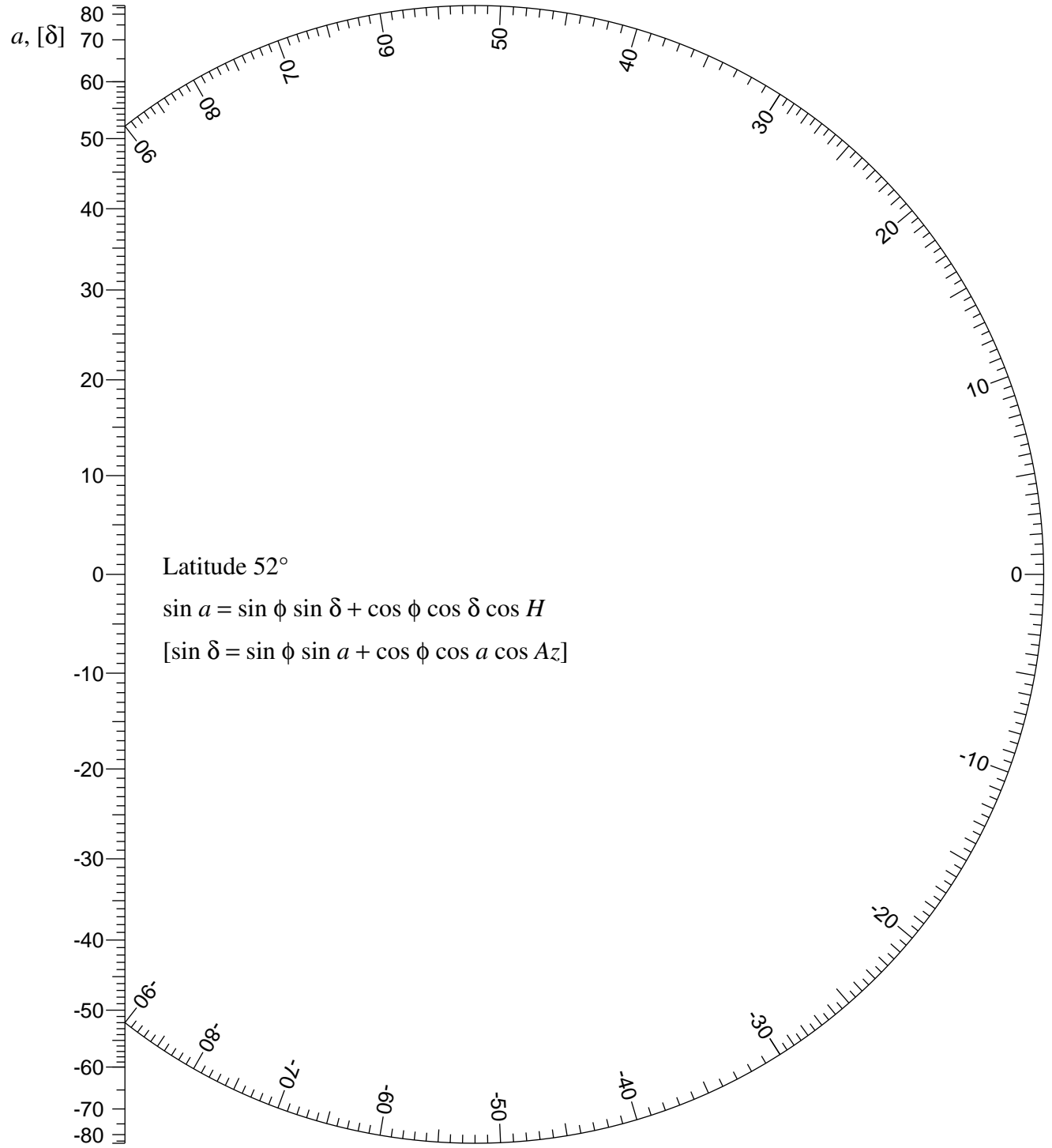
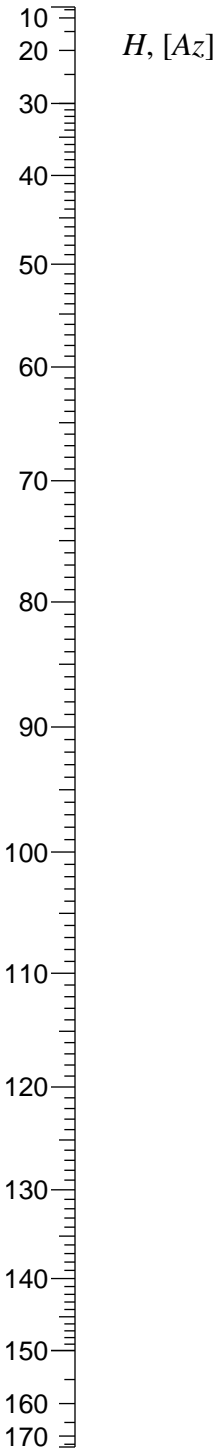


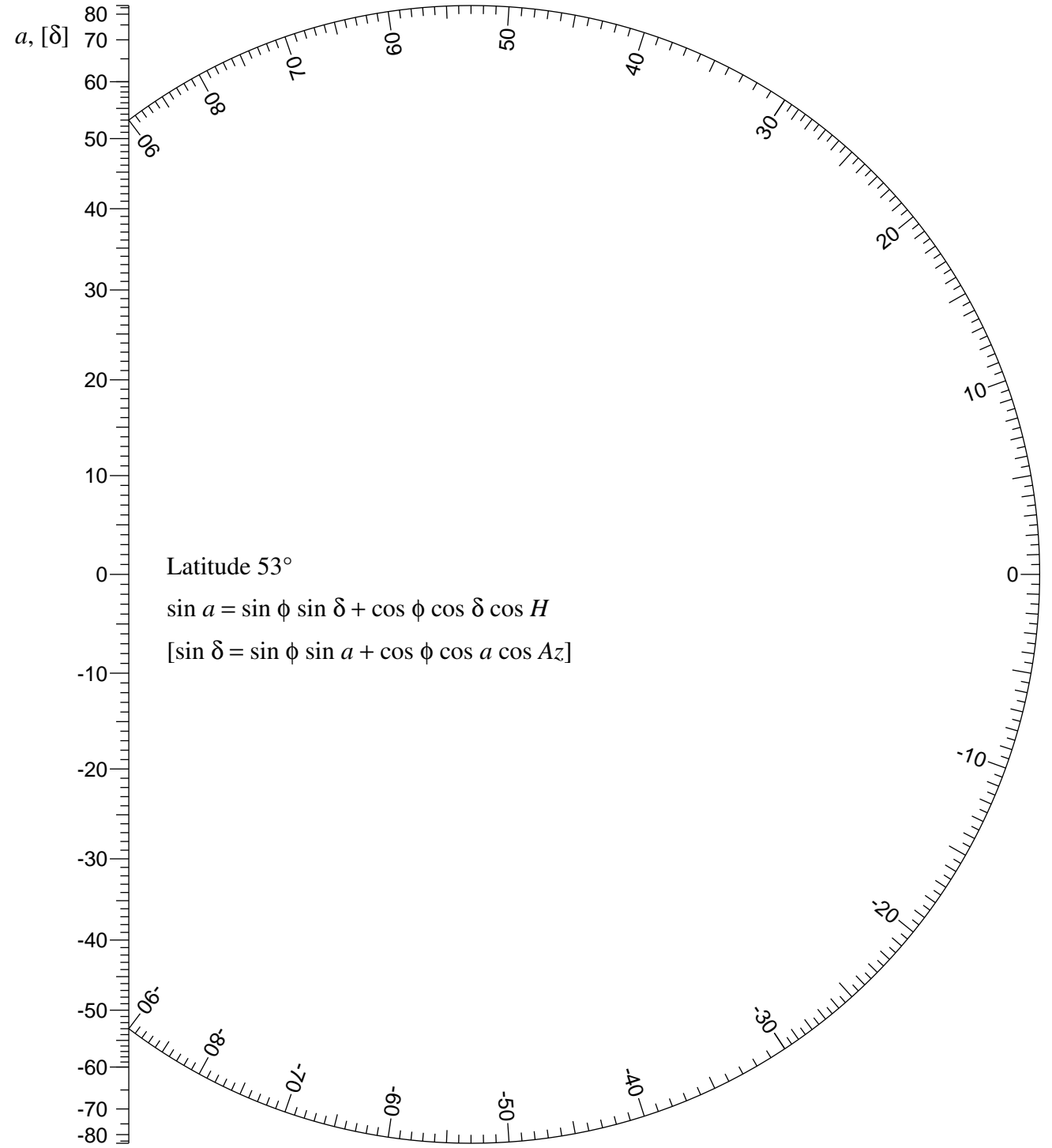
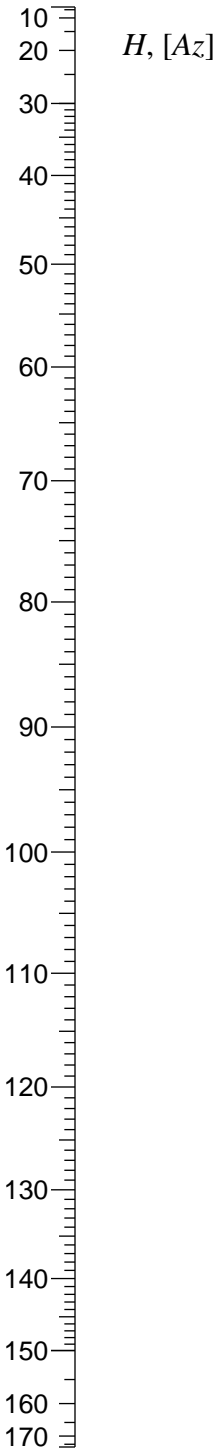


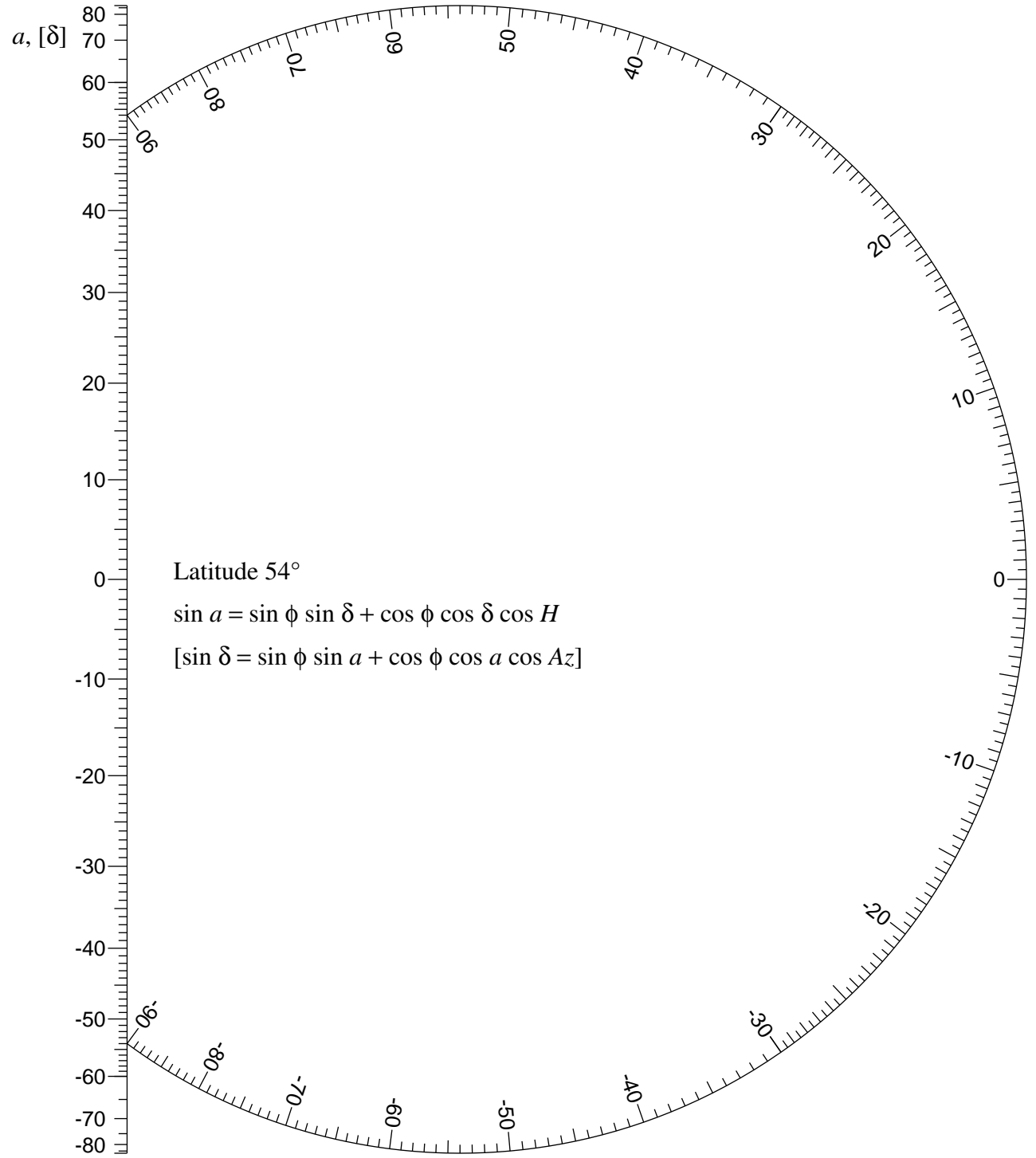
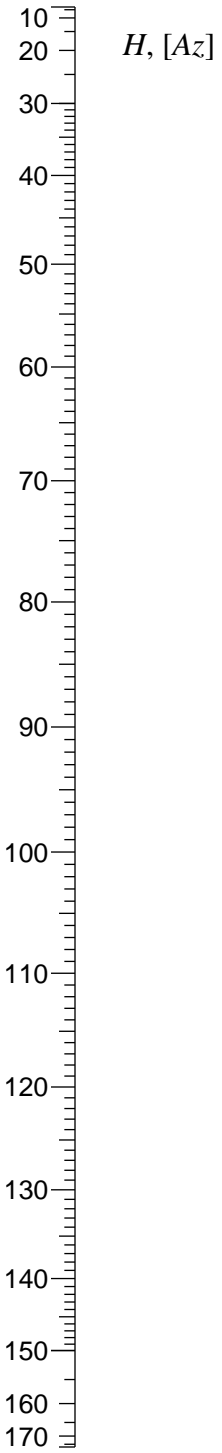


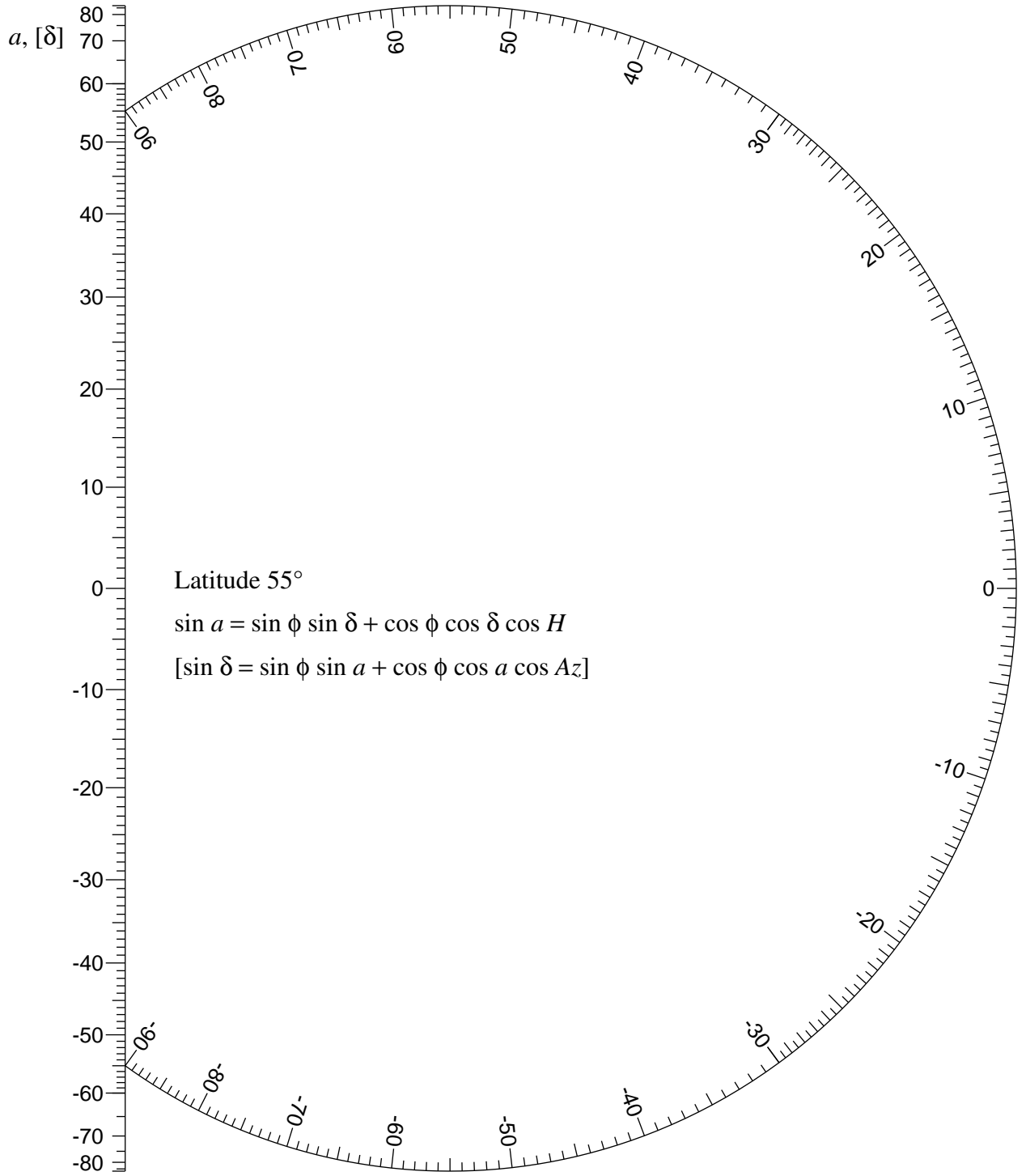
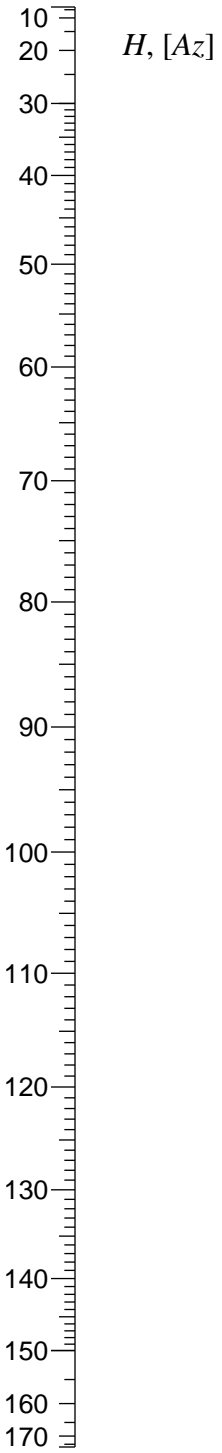


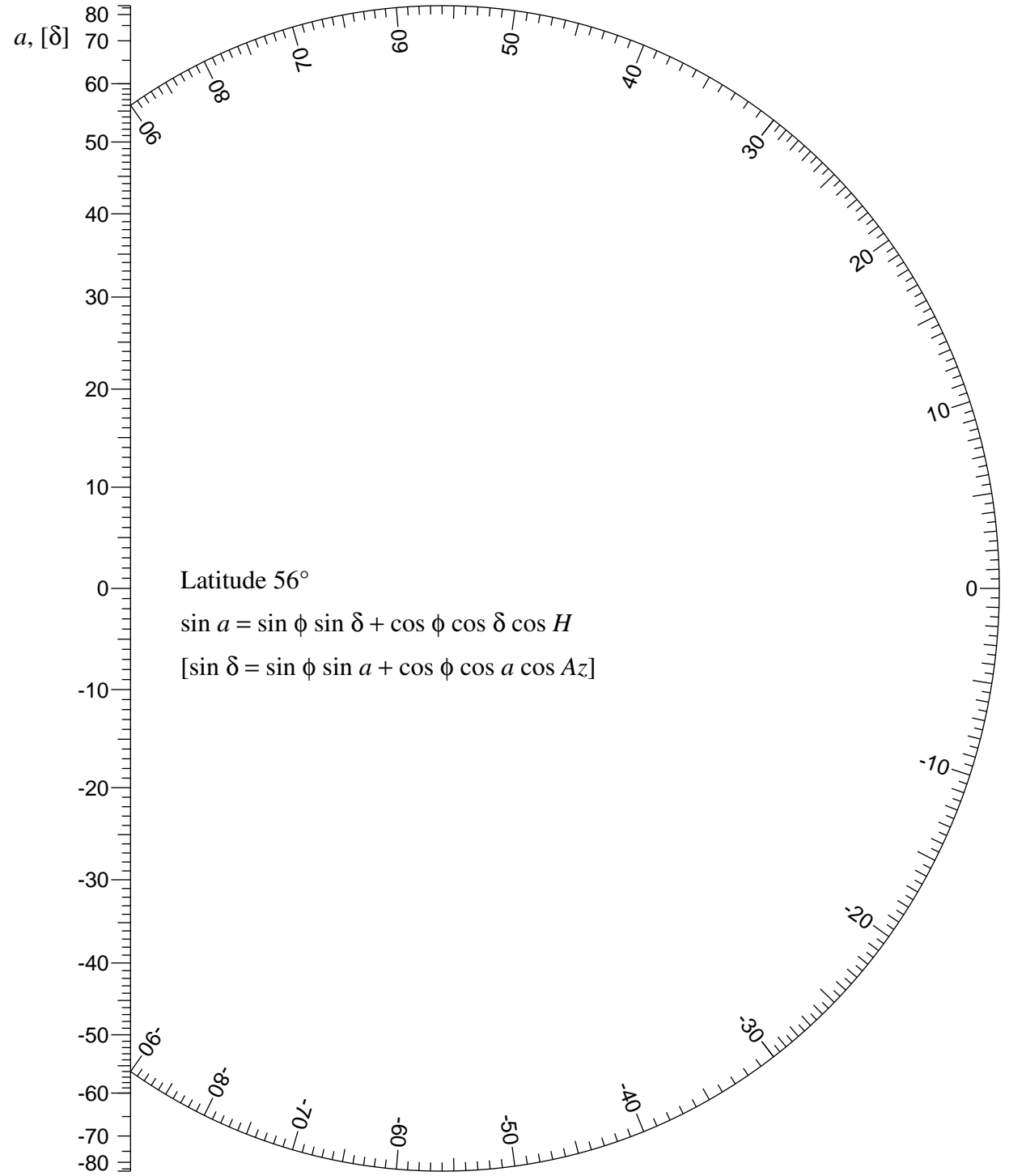
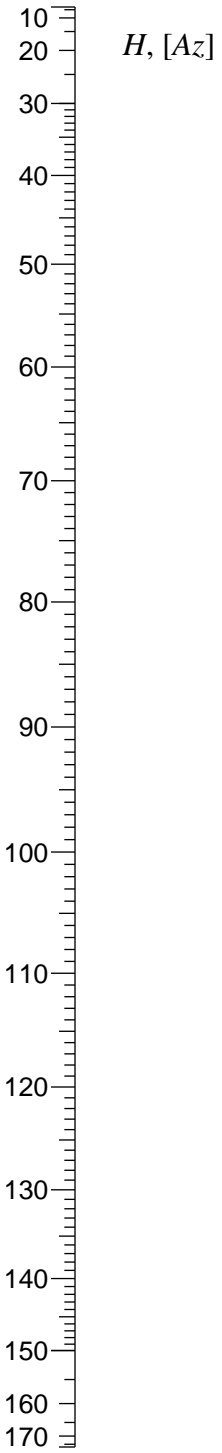




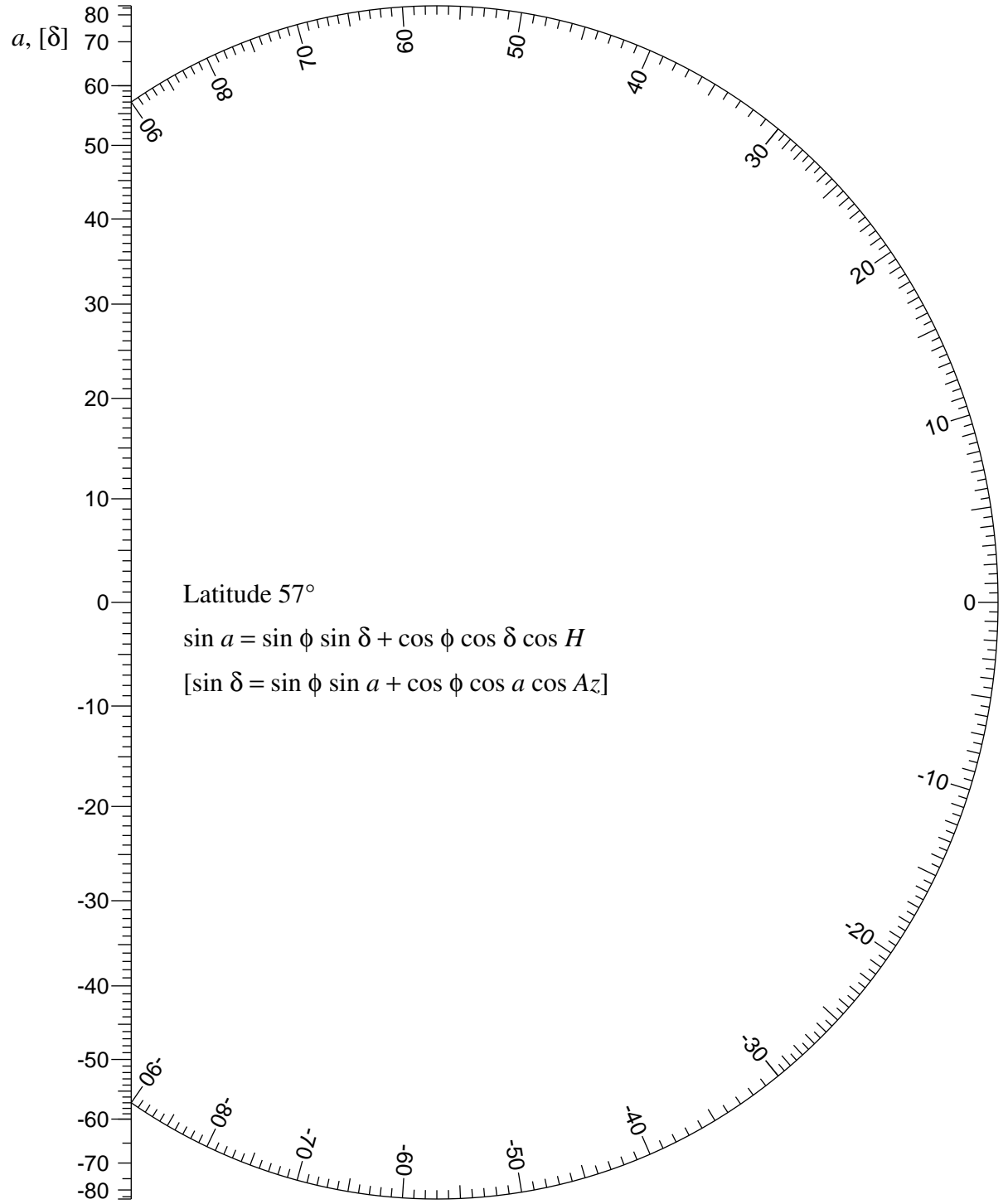
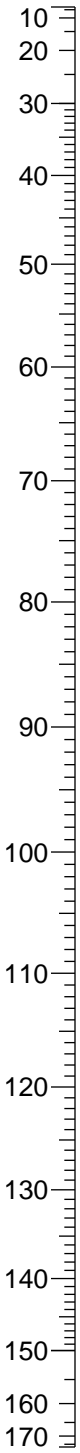


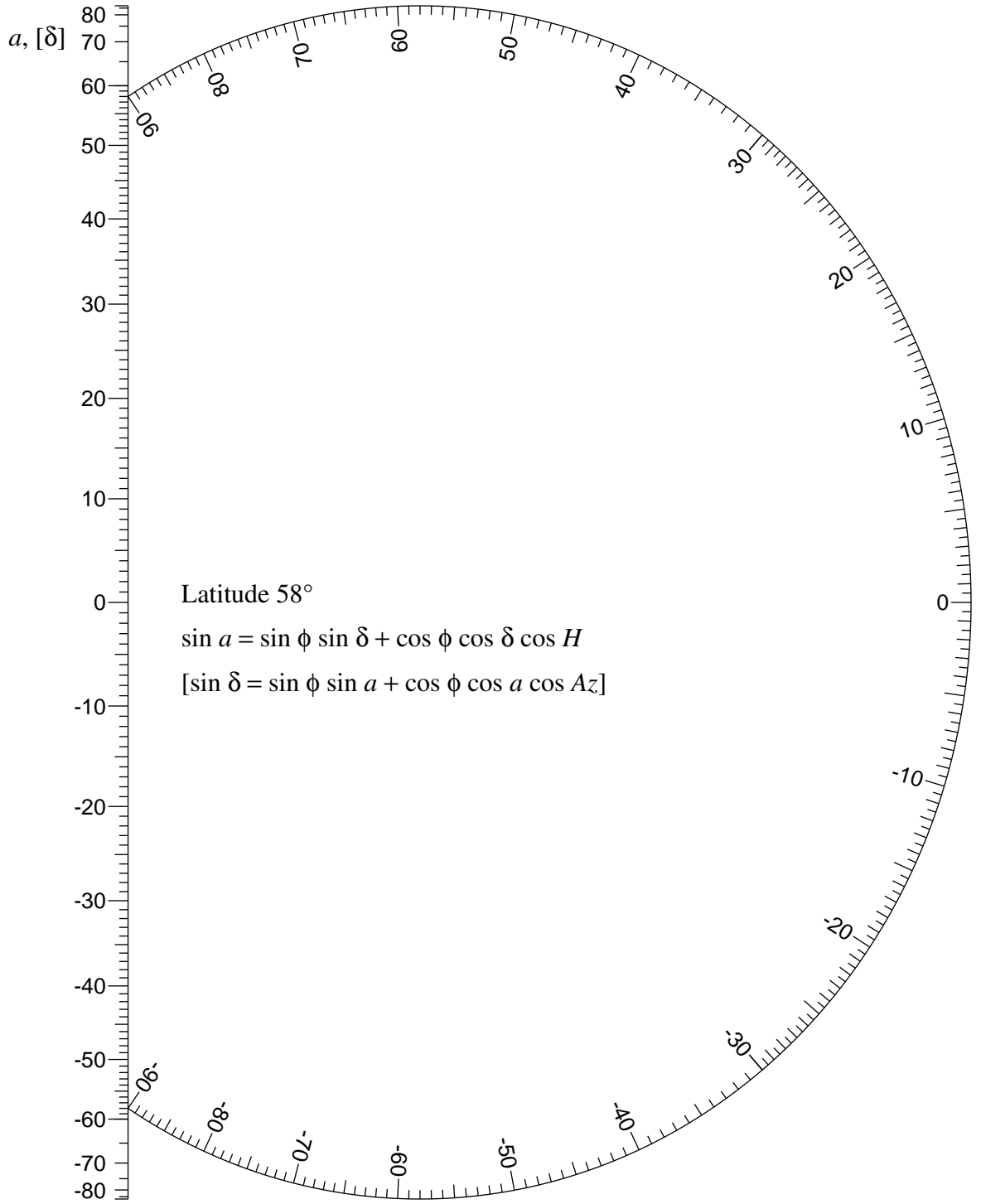
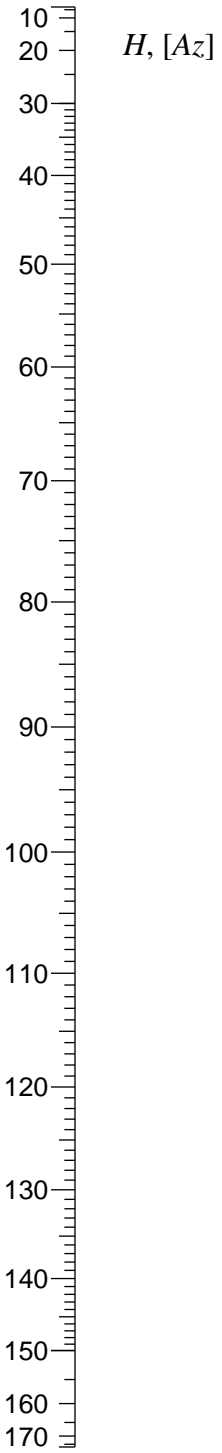


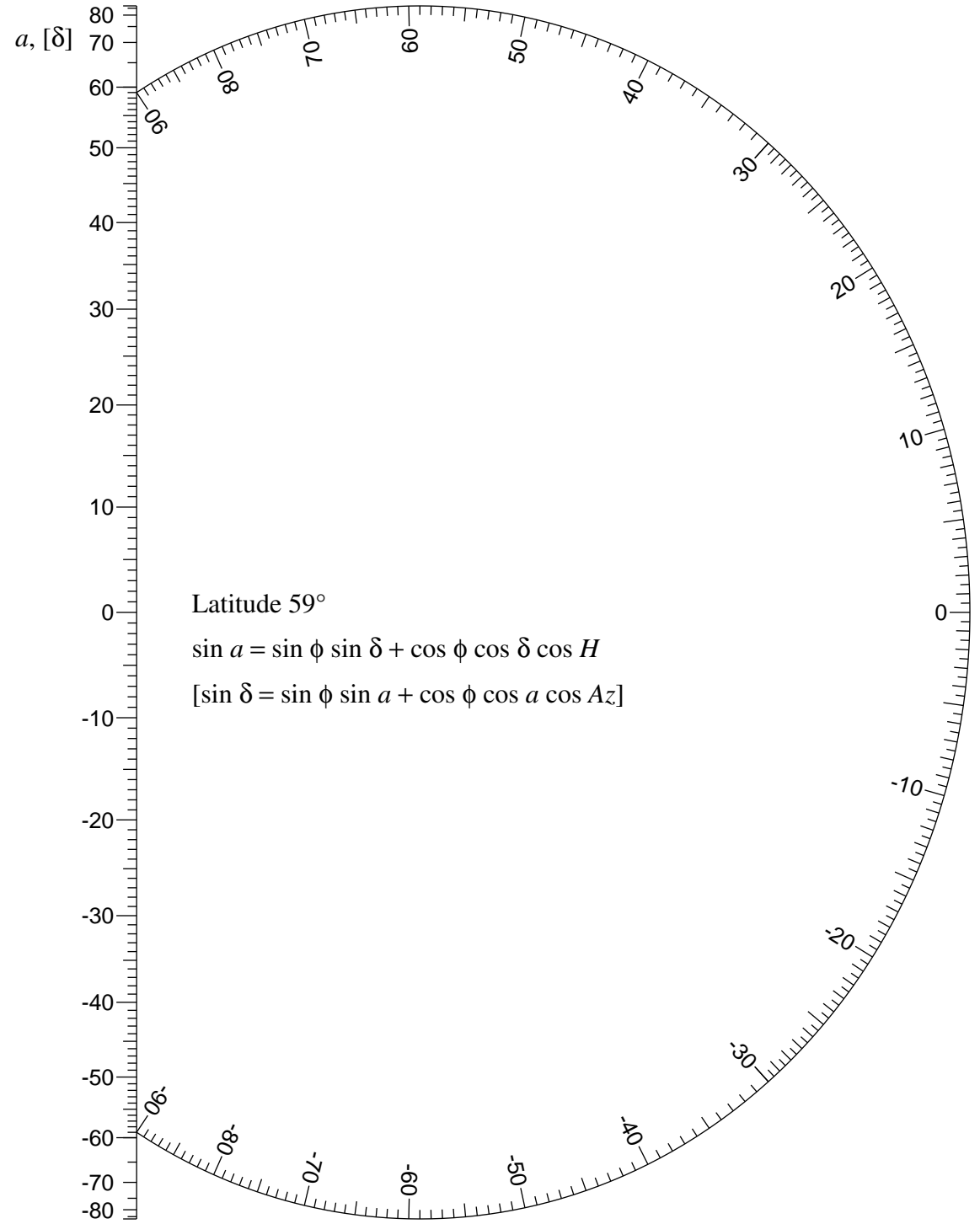
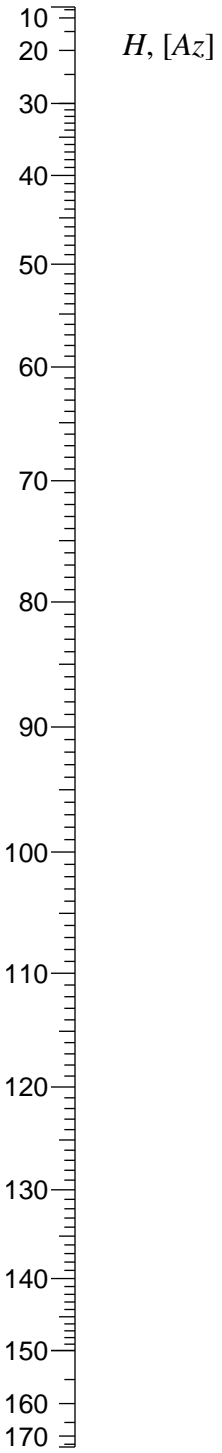


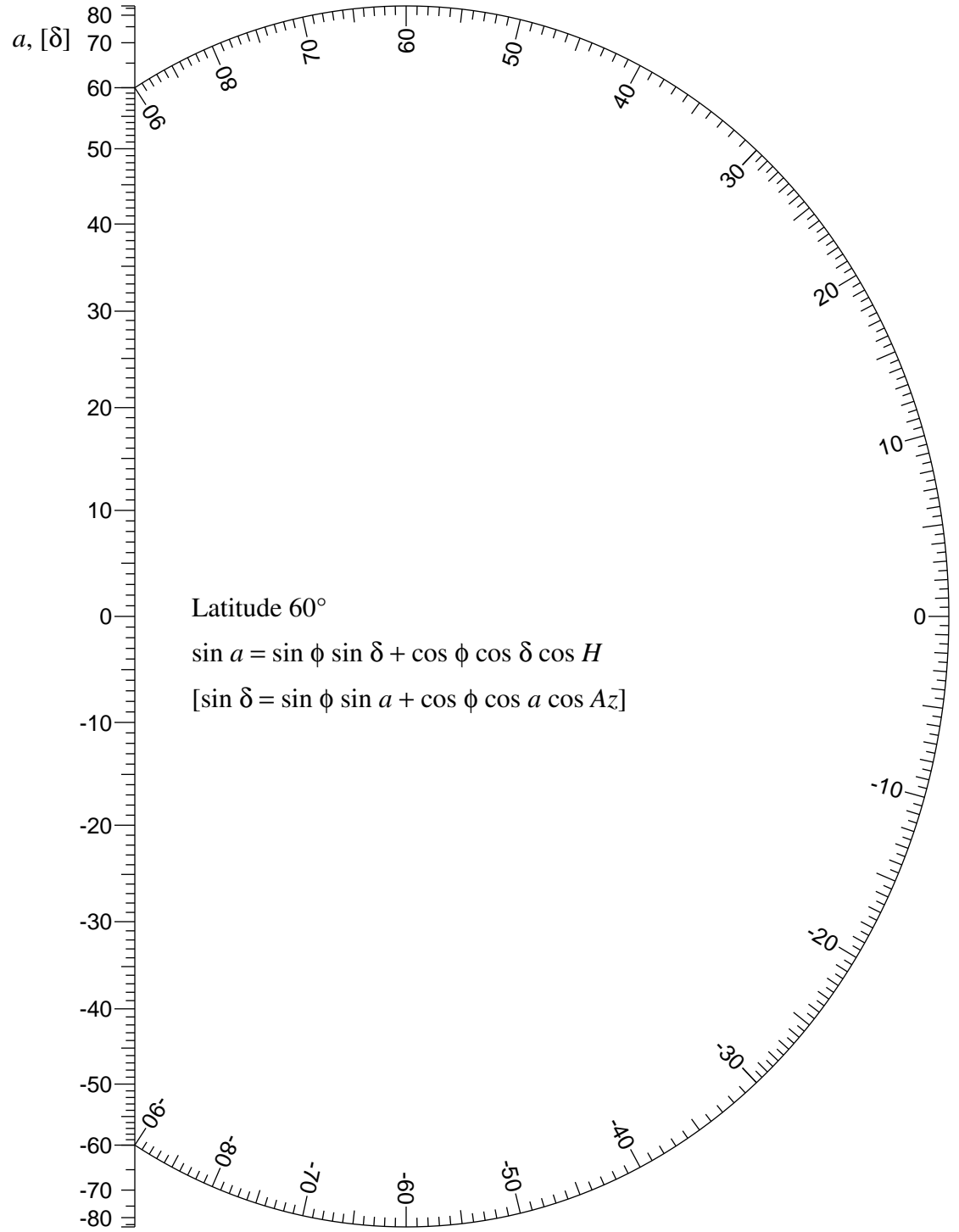
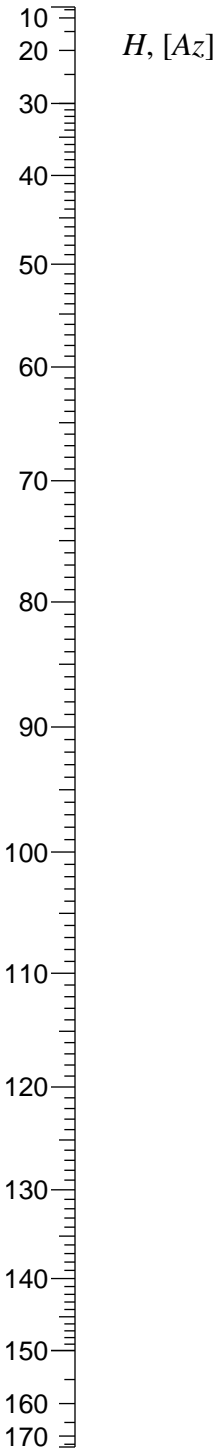


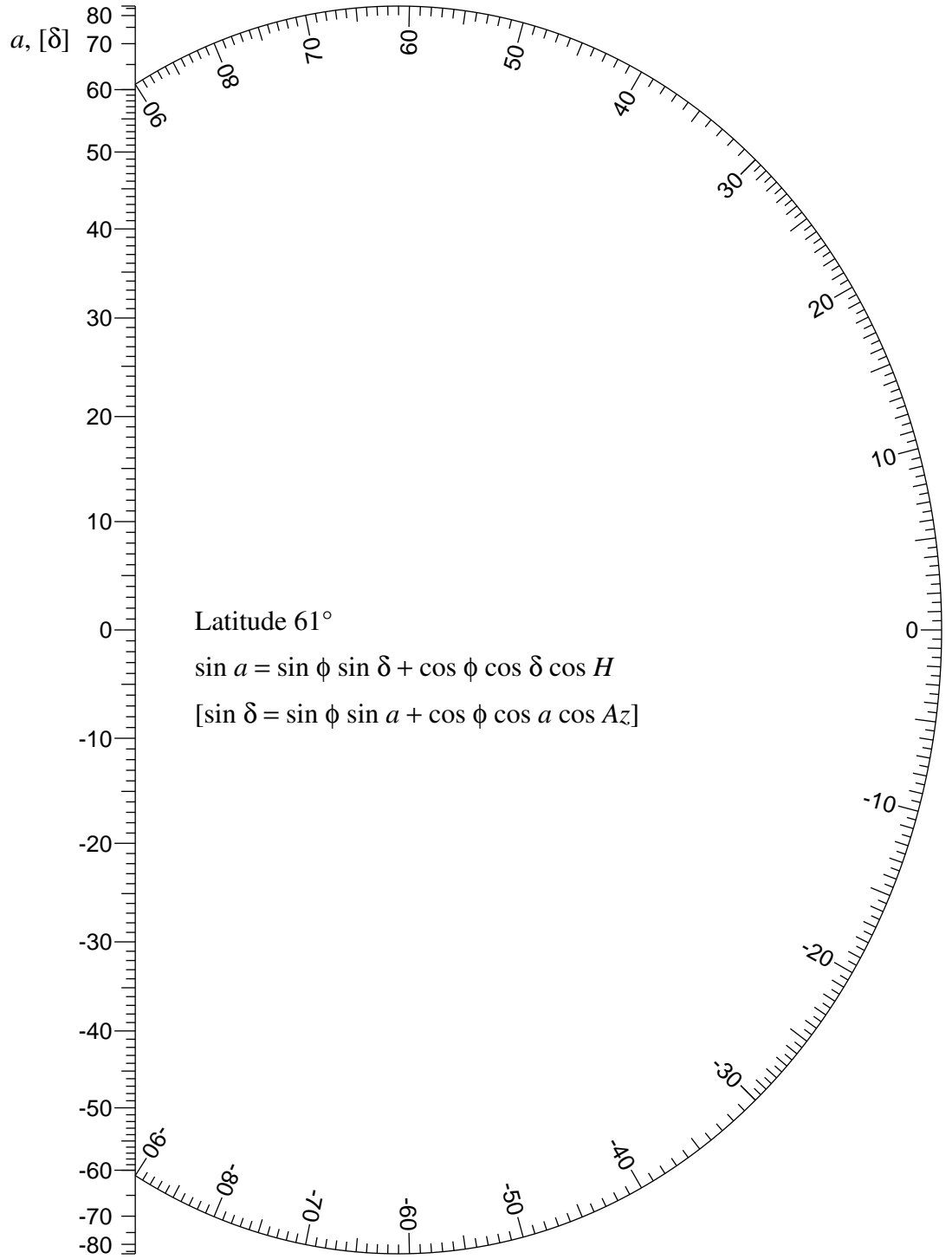
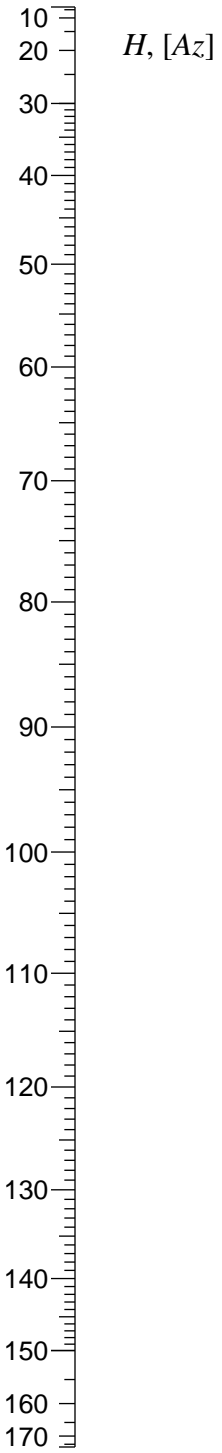
$H, [Az]$

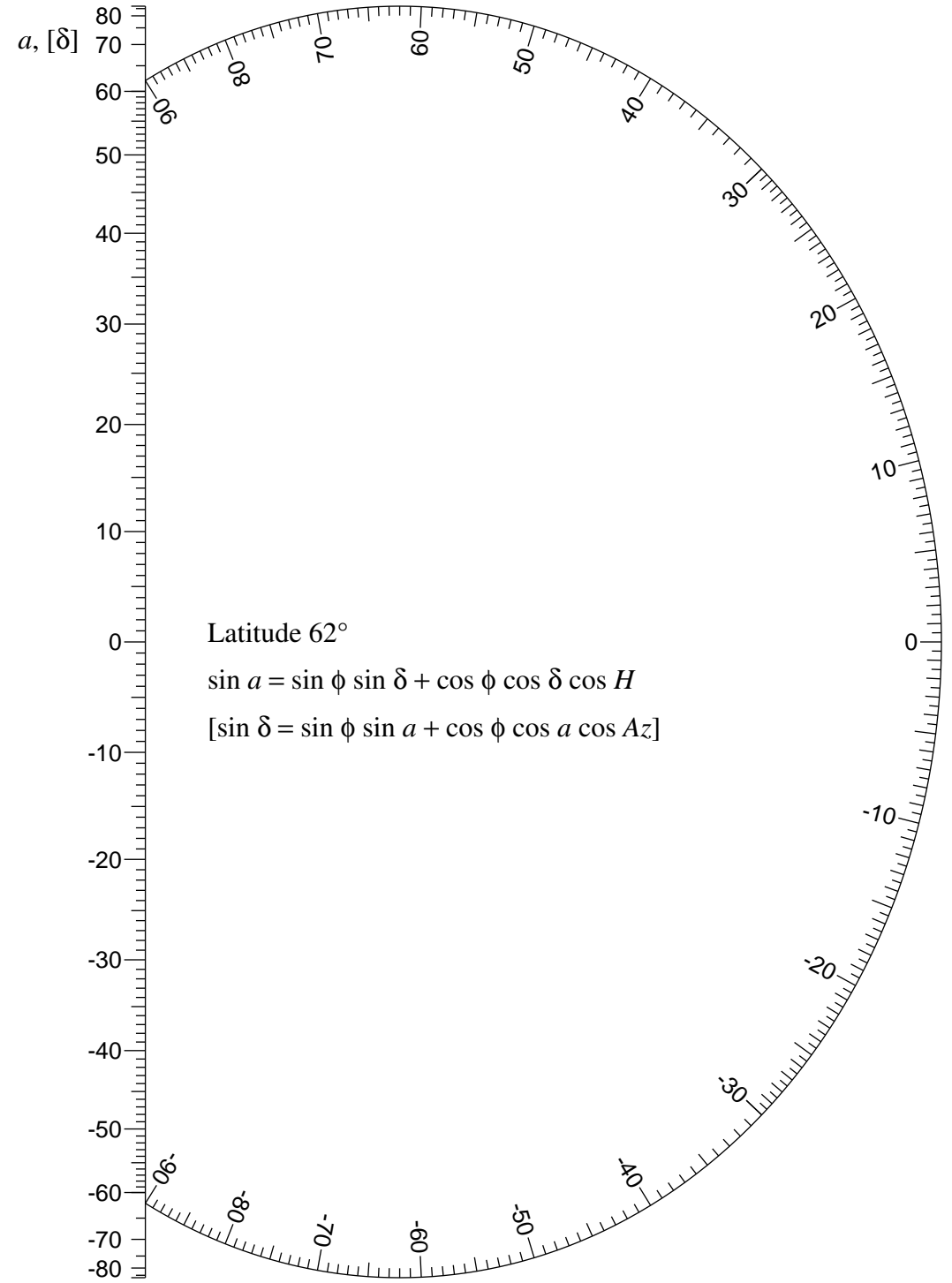
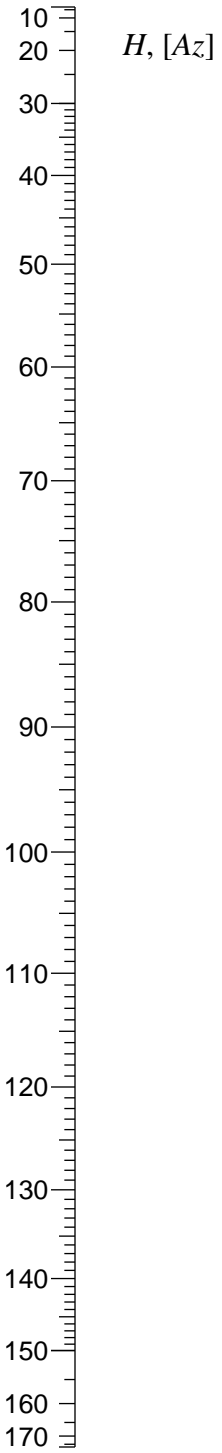




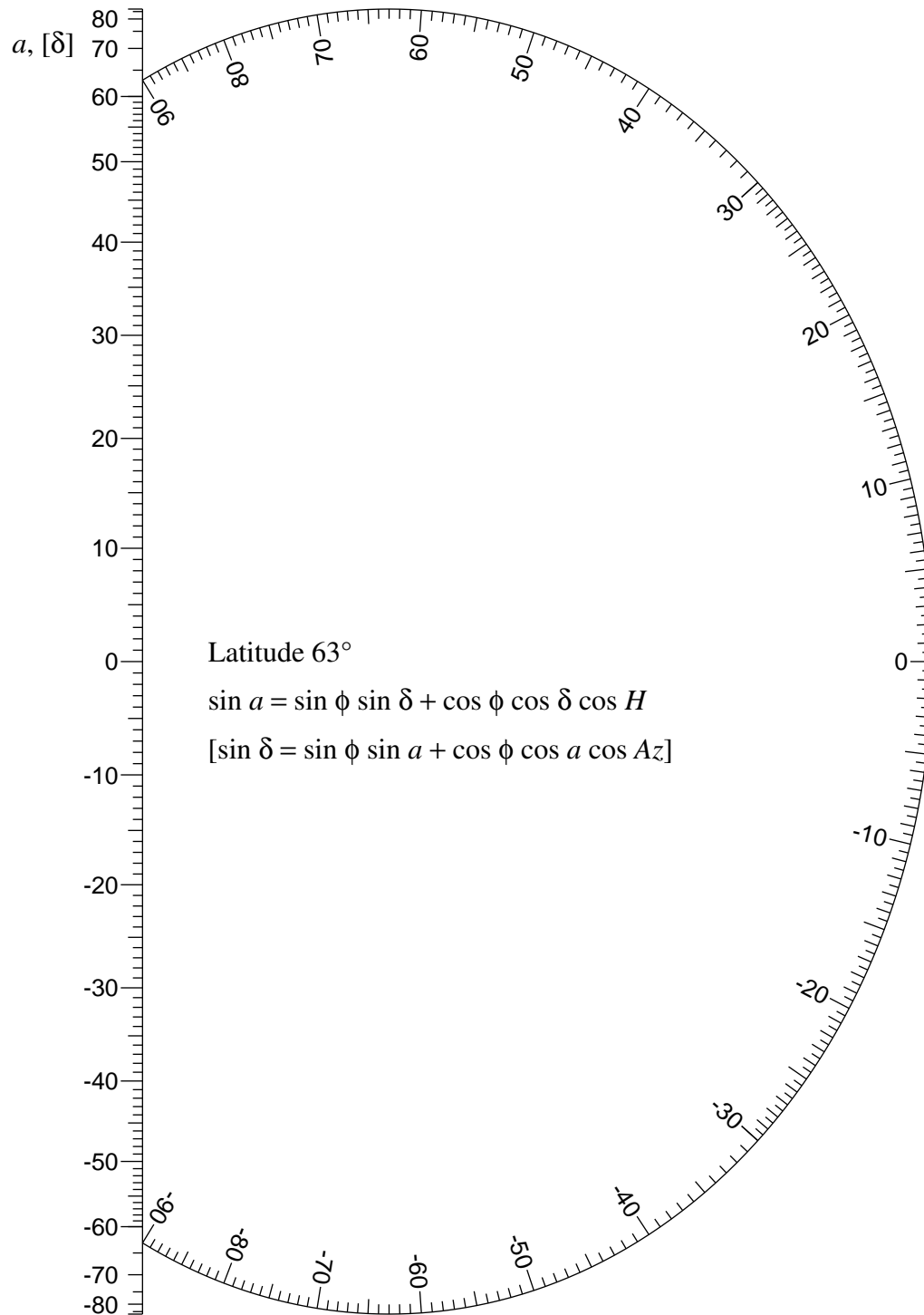
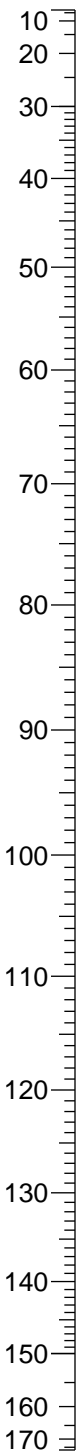








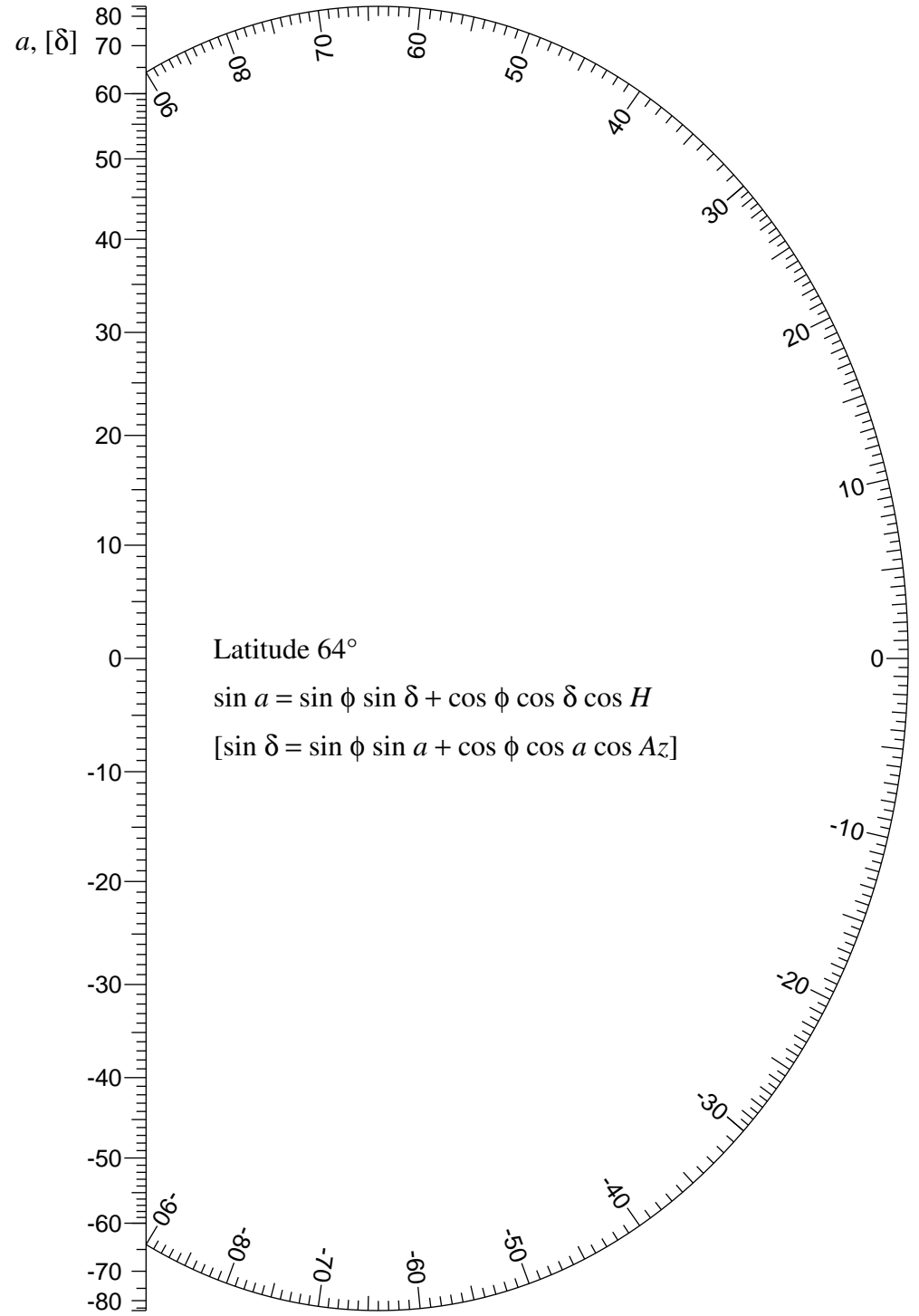
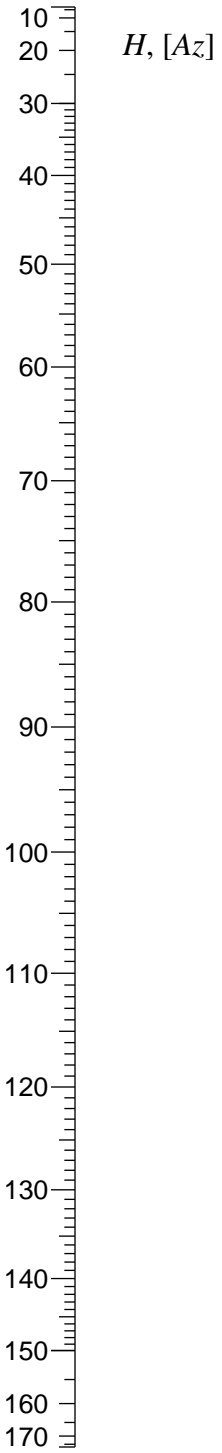
$H, [Az]$

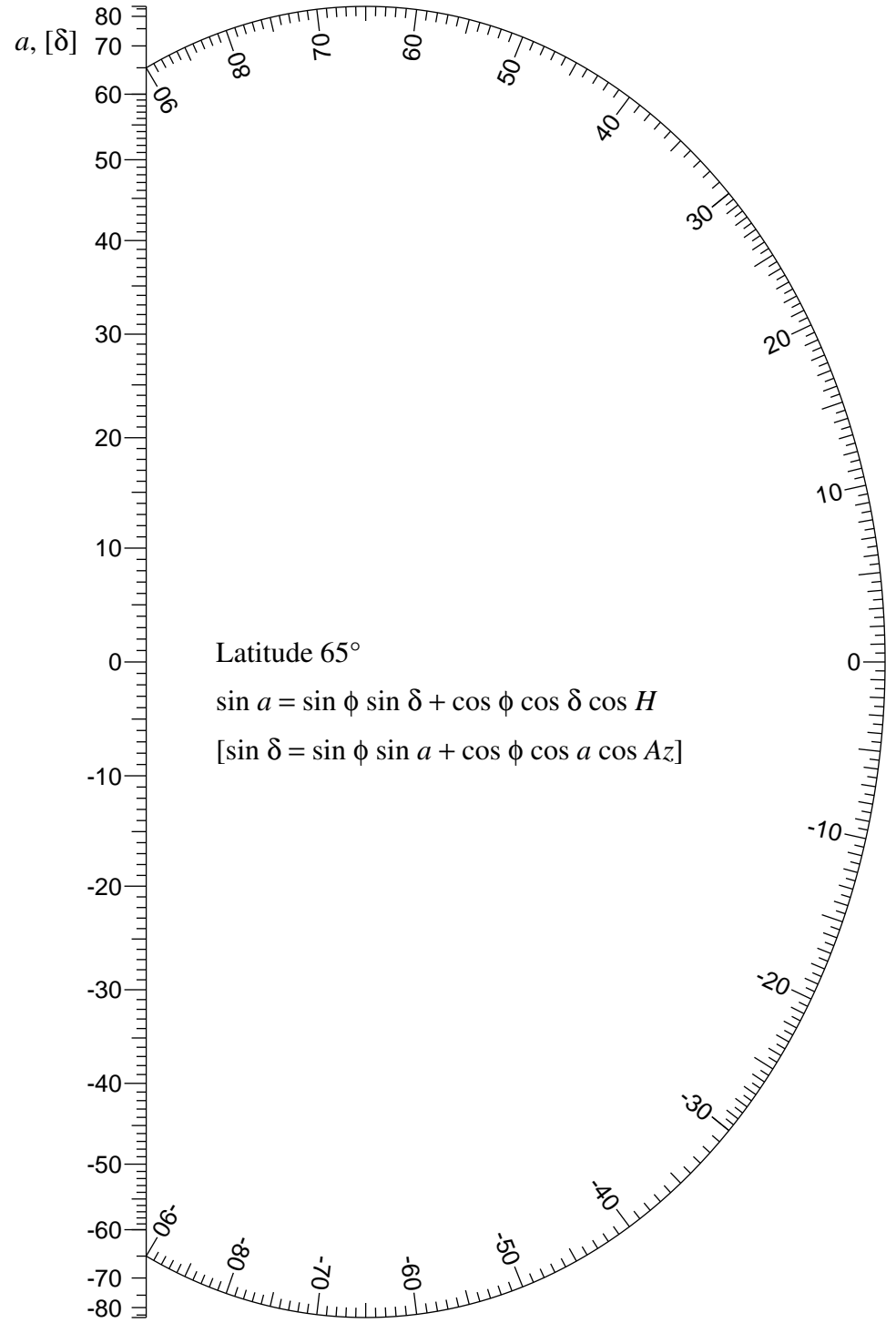
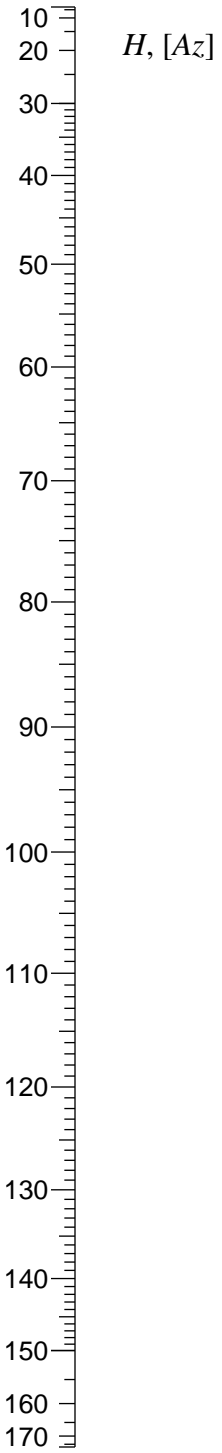


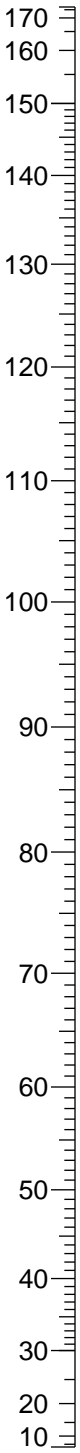
Latitude 63°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$





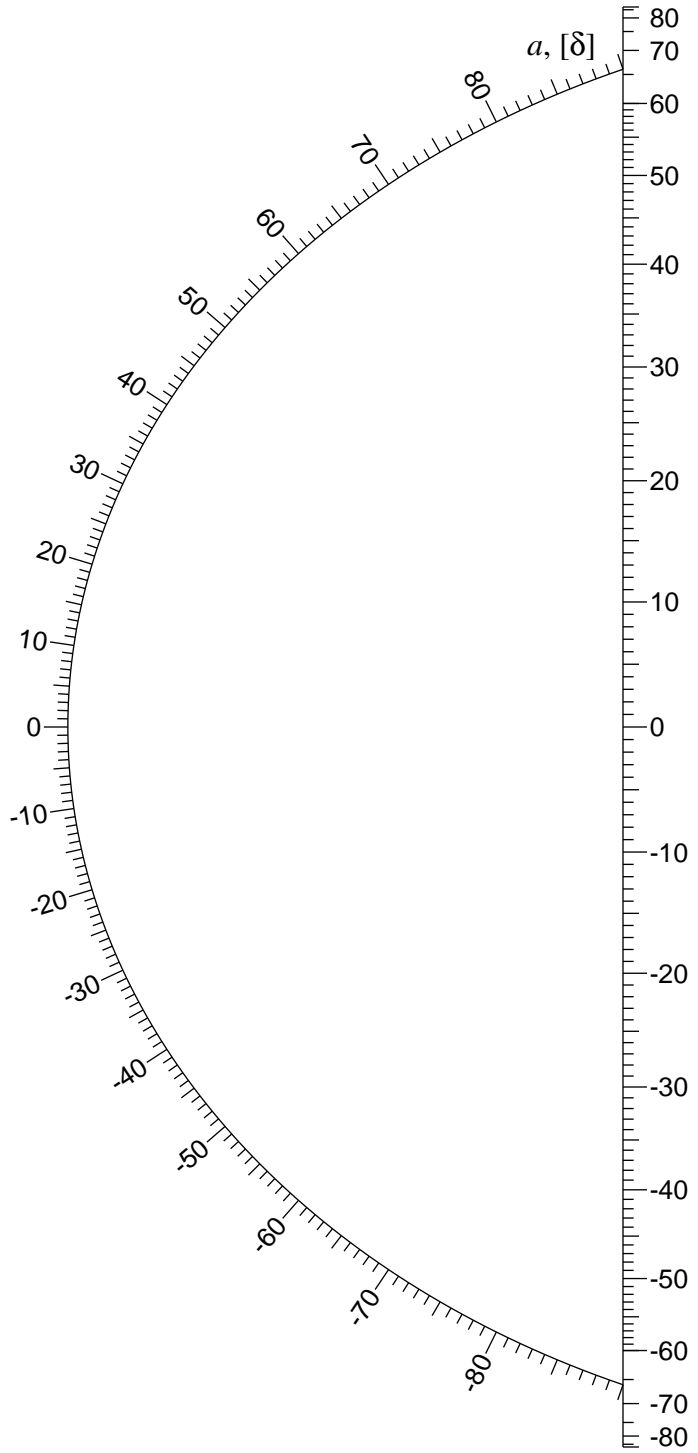


$H, [Az]$

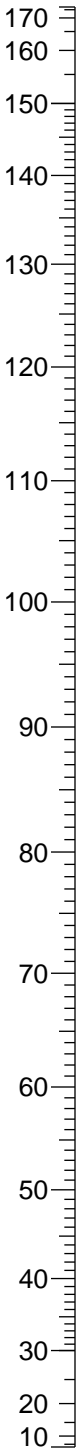
Latitude 66°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

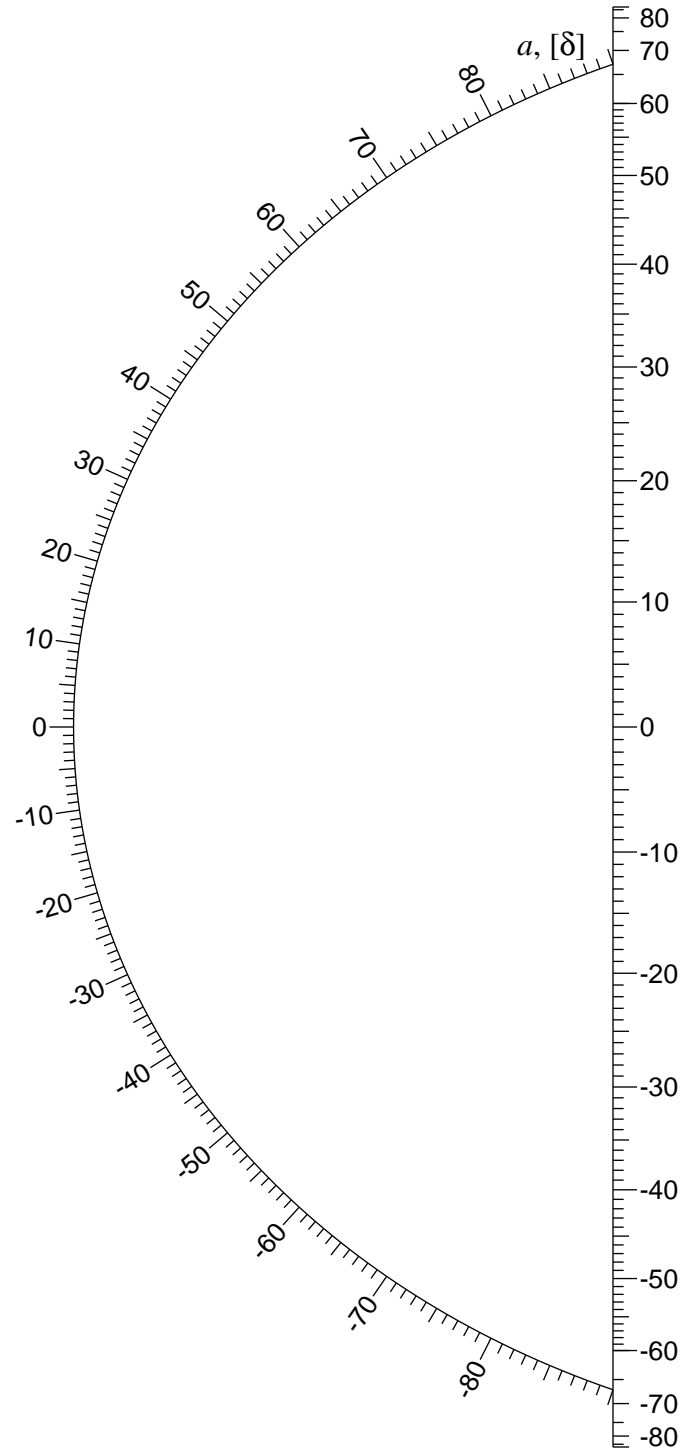


$H, [Az]$

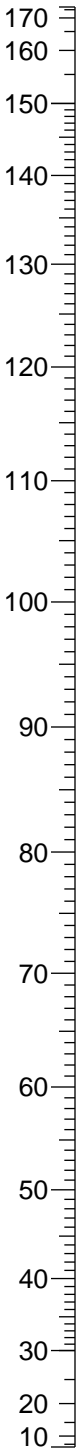
Latitude 67°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

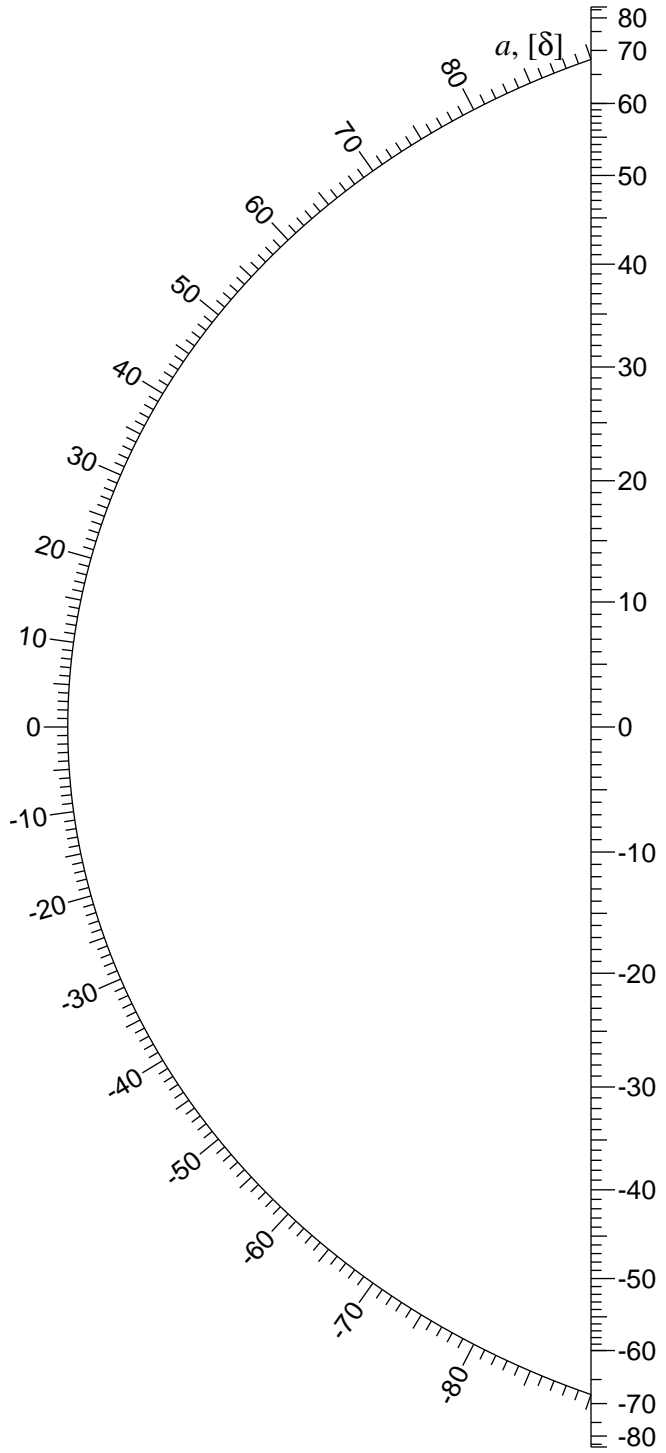


$H, [Az]$

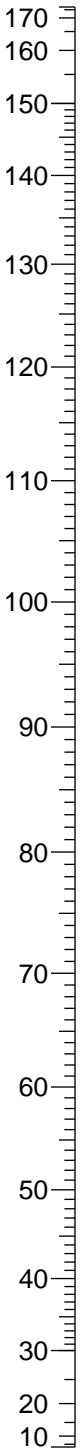
Latitude 68°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

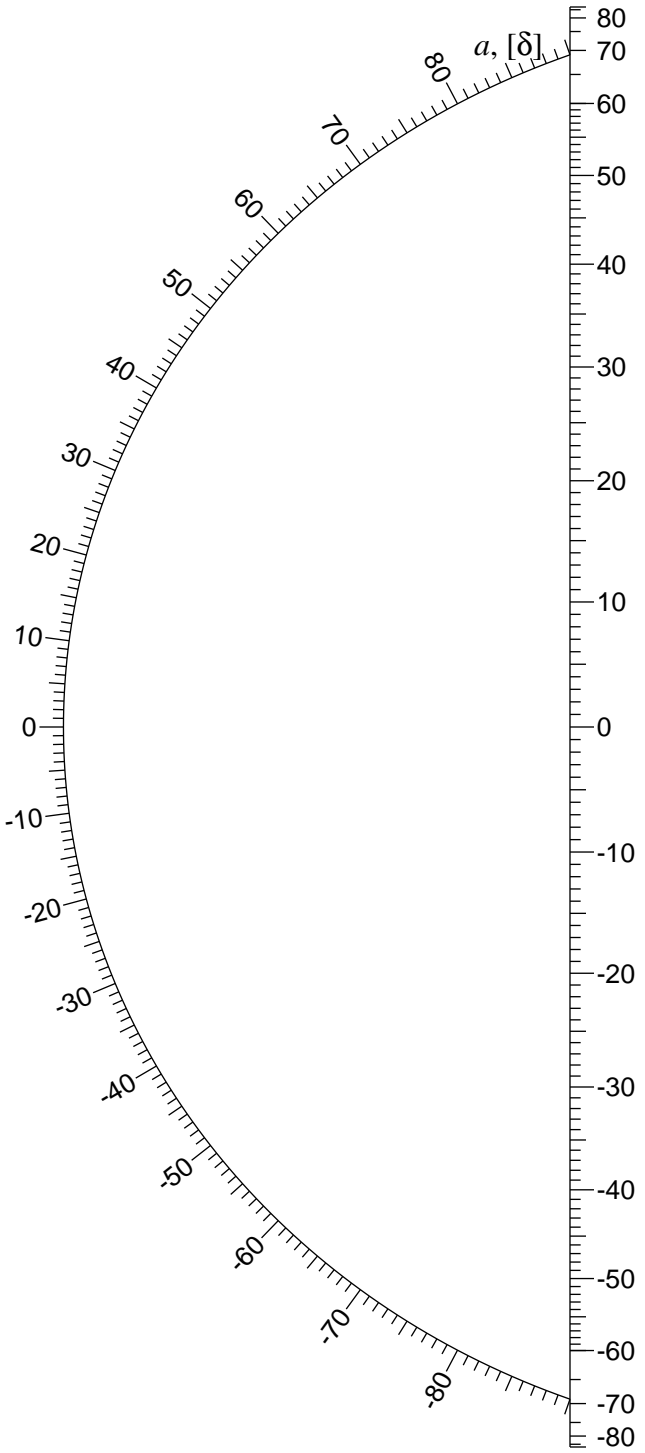


$H, [Az]$

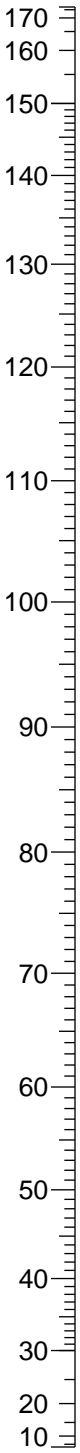
Latitude 69°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

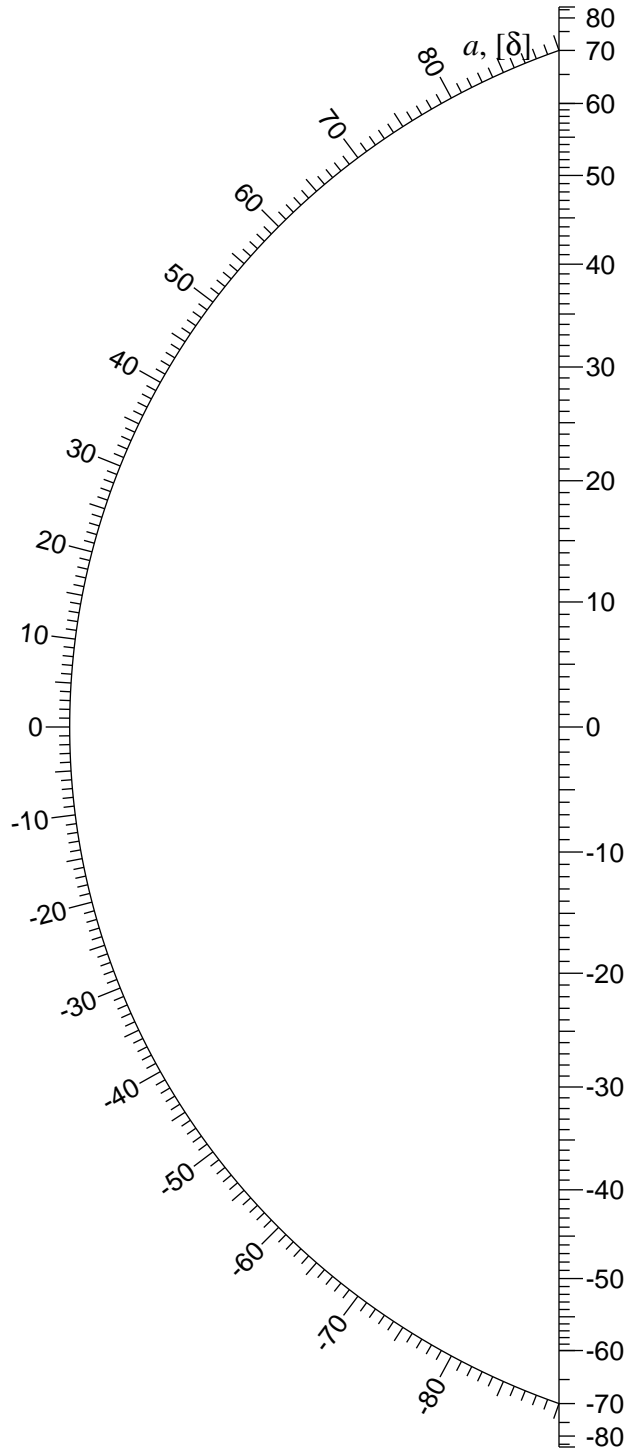


$H, [Az]$

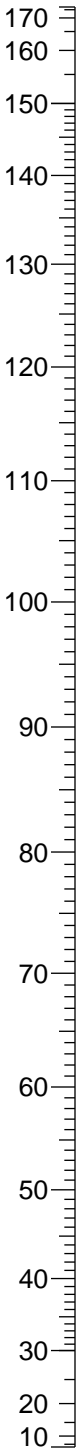
Latitude 70°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



$a, [\delta]$

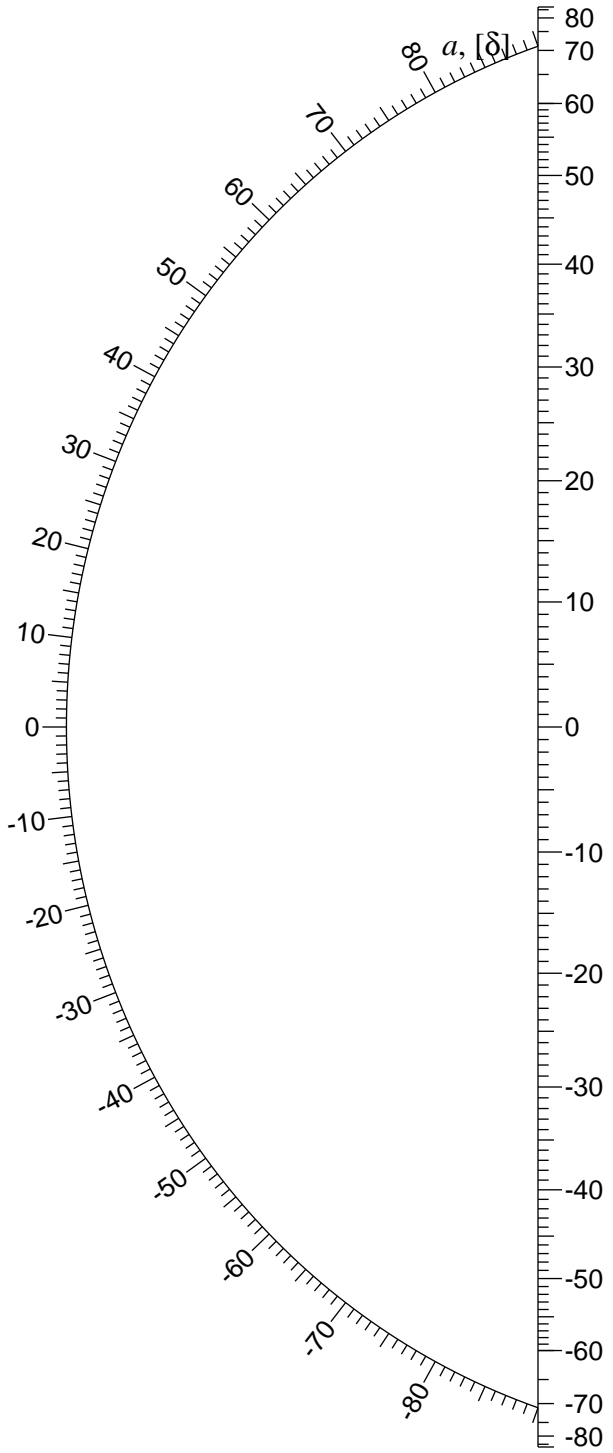


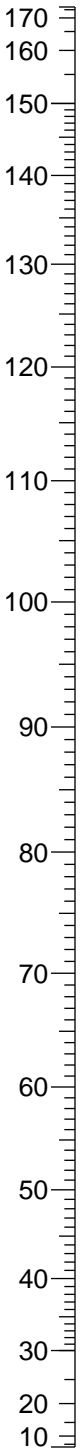
$H, [Az]$

Latitude 71°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



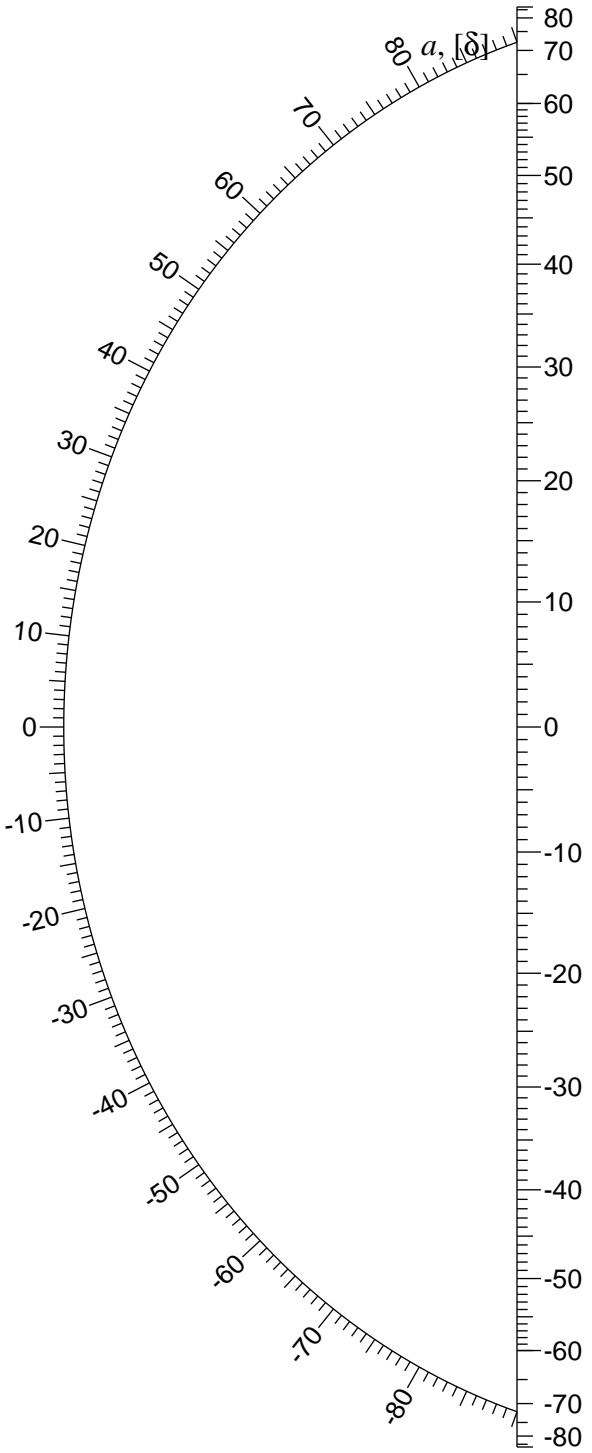


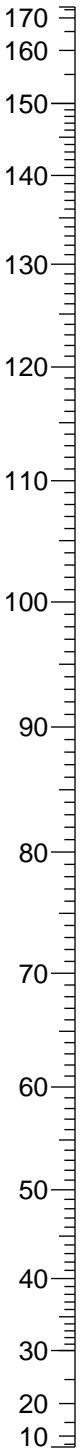
$H, [Az]$

Latitude 72°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



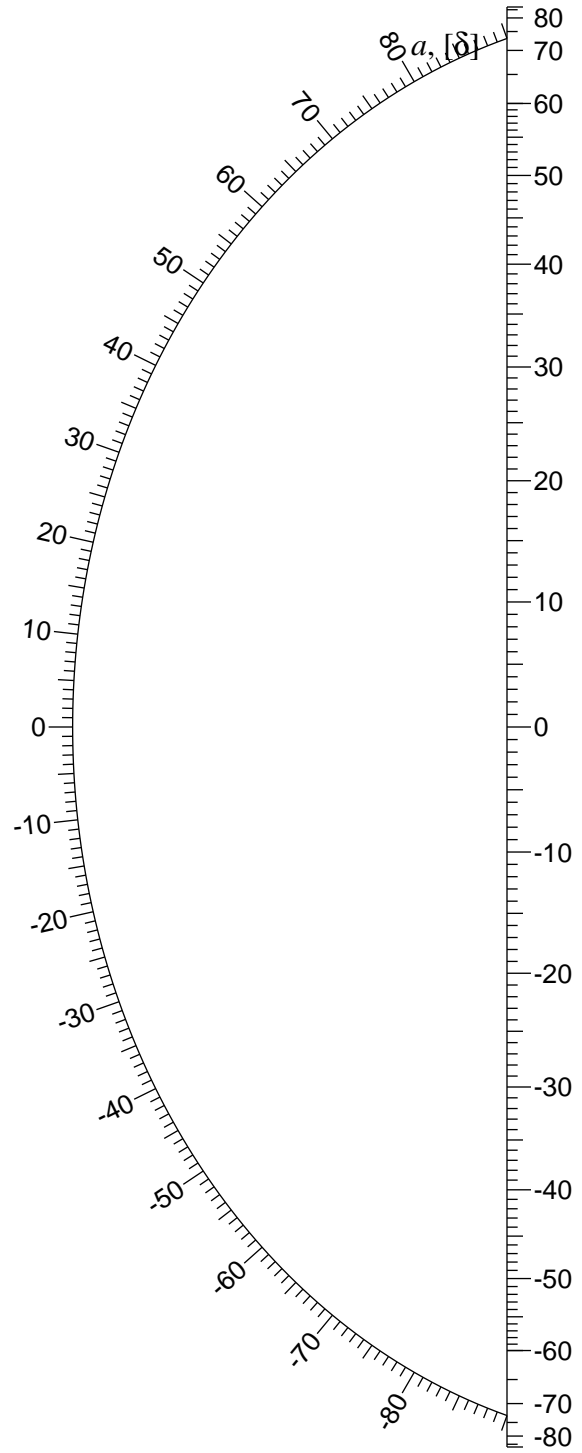


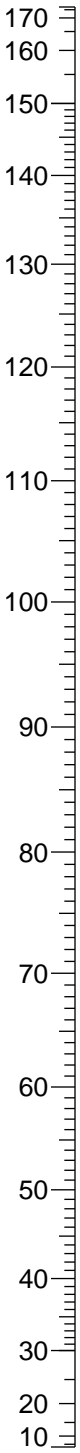
$H, [Az]$

Latitude 73°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



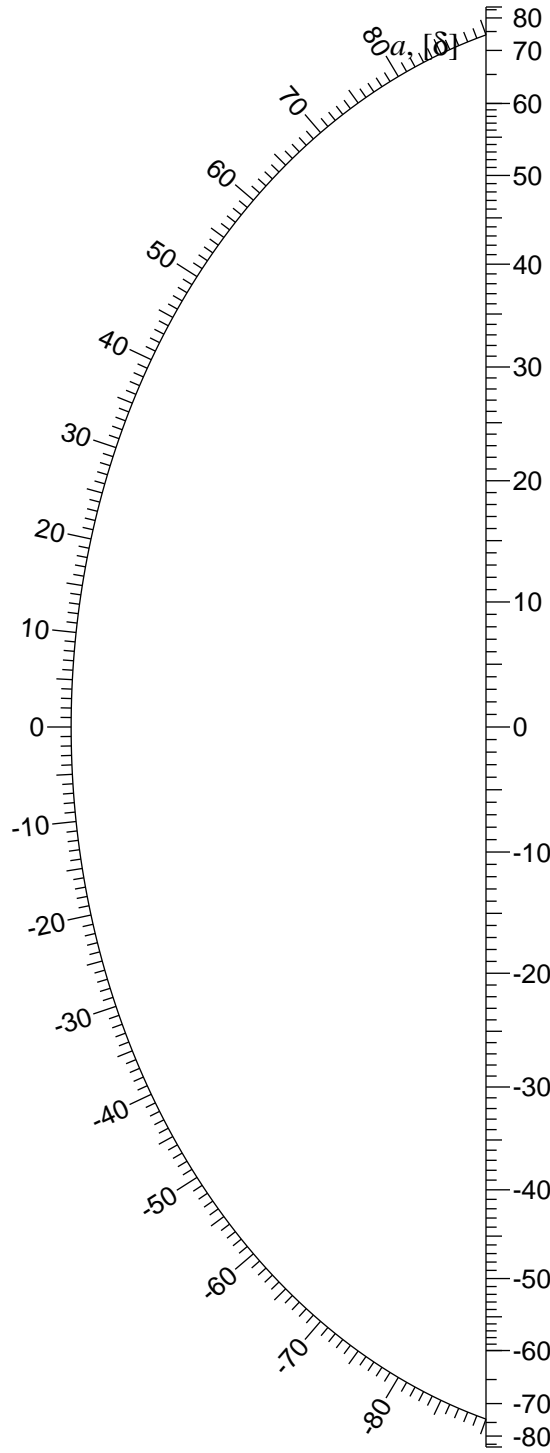


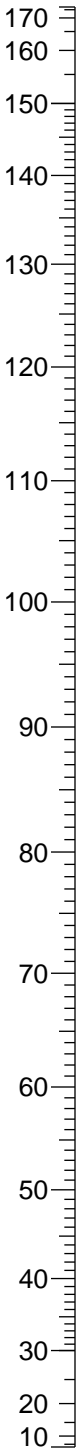
$H, [Az]$

Latitude 74°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



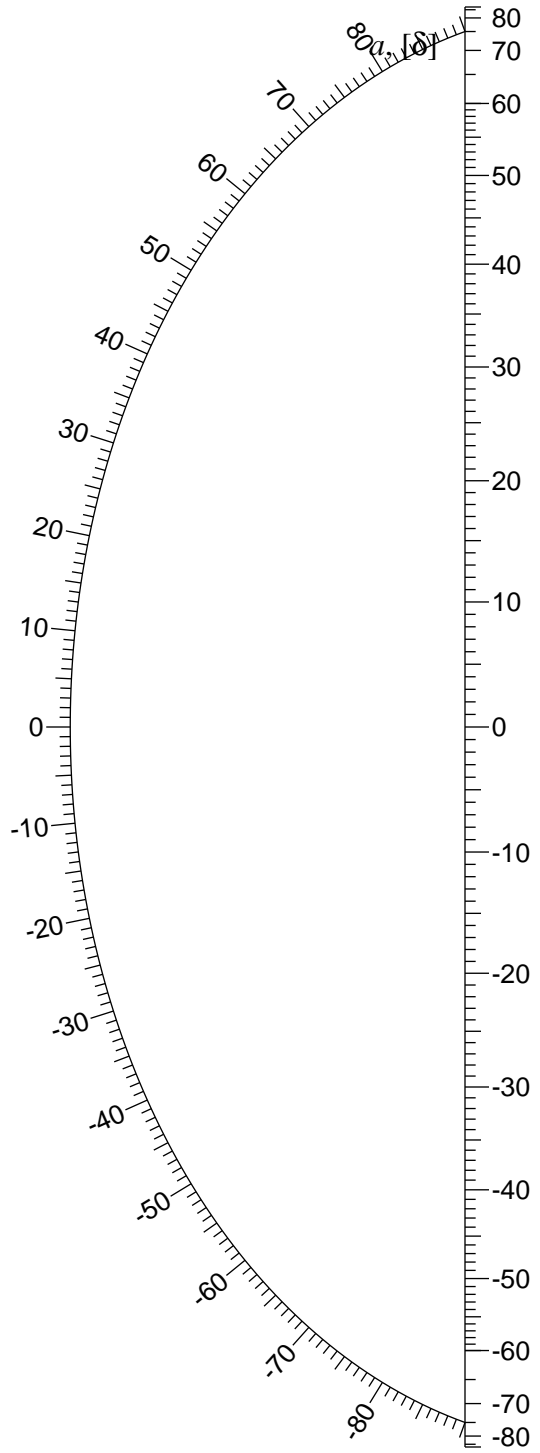


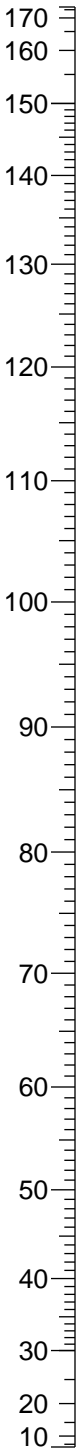
$H, [Az]$

Latitude 75°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



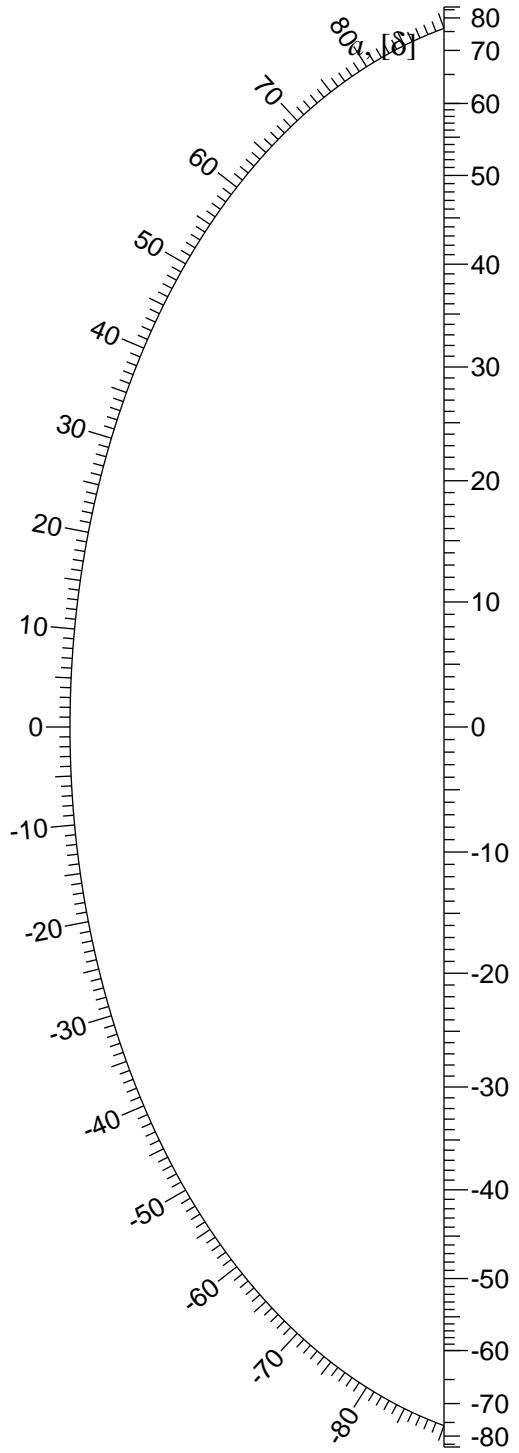


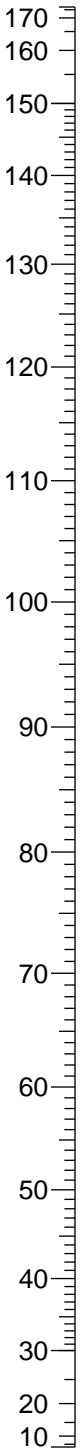
$H, [Az]$

Latitude 76°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



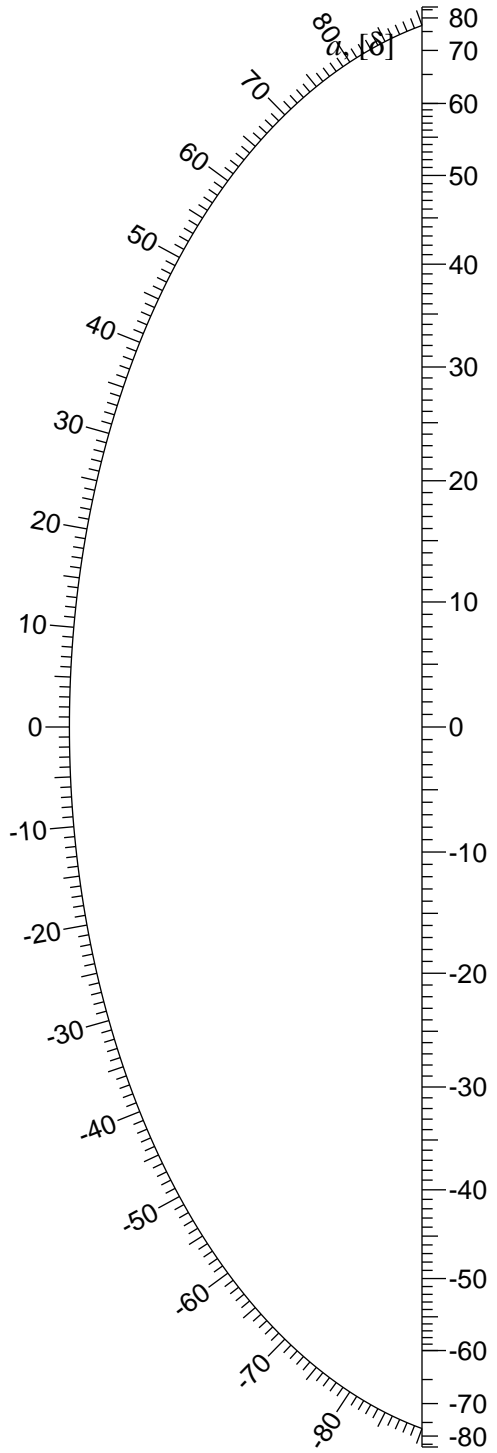


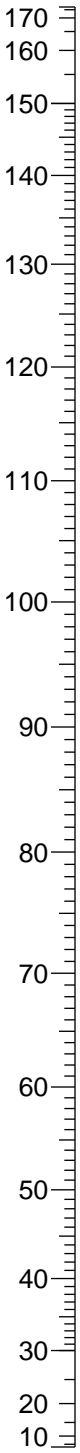
$H, [Az]$

Latitude 77°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



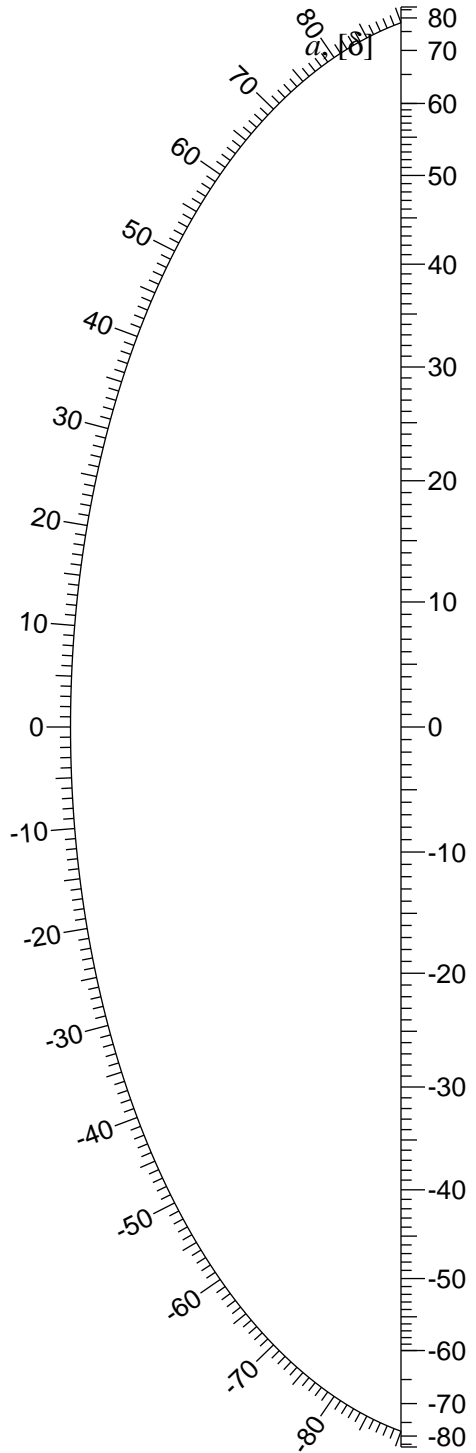


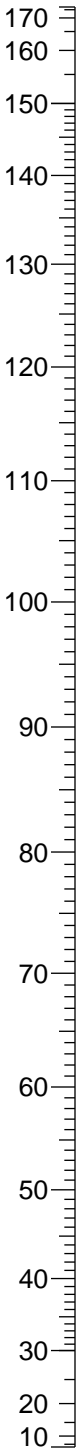
$H, [Az]$

Latitude 78°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



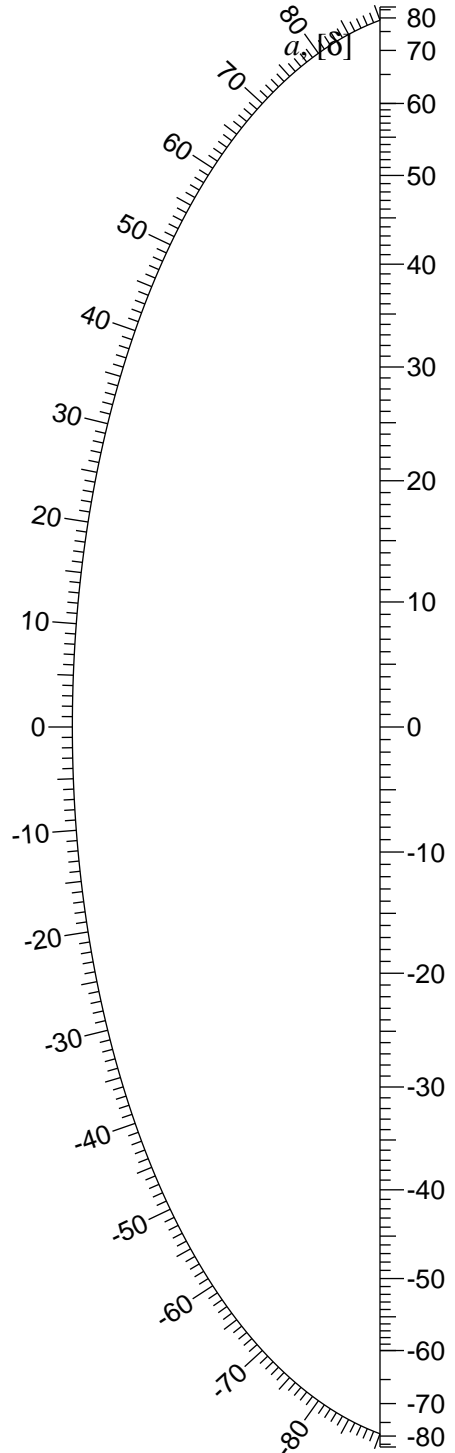


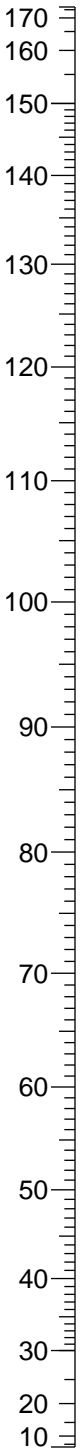
$H, [Az]$

Latitude 79°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



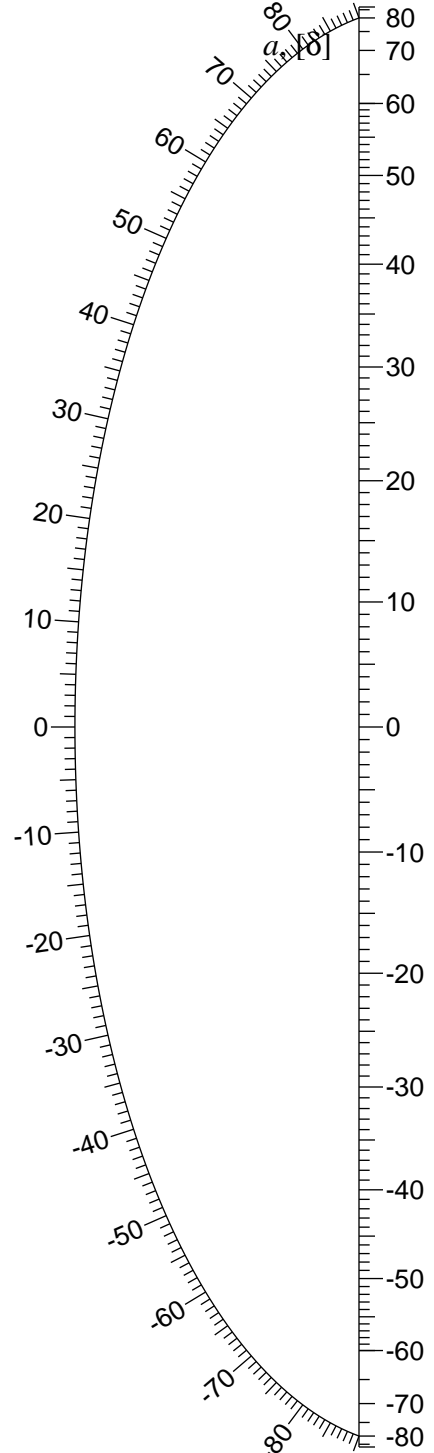


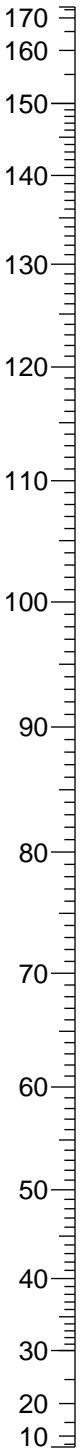
$H, [Az]$

Latitude 80°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



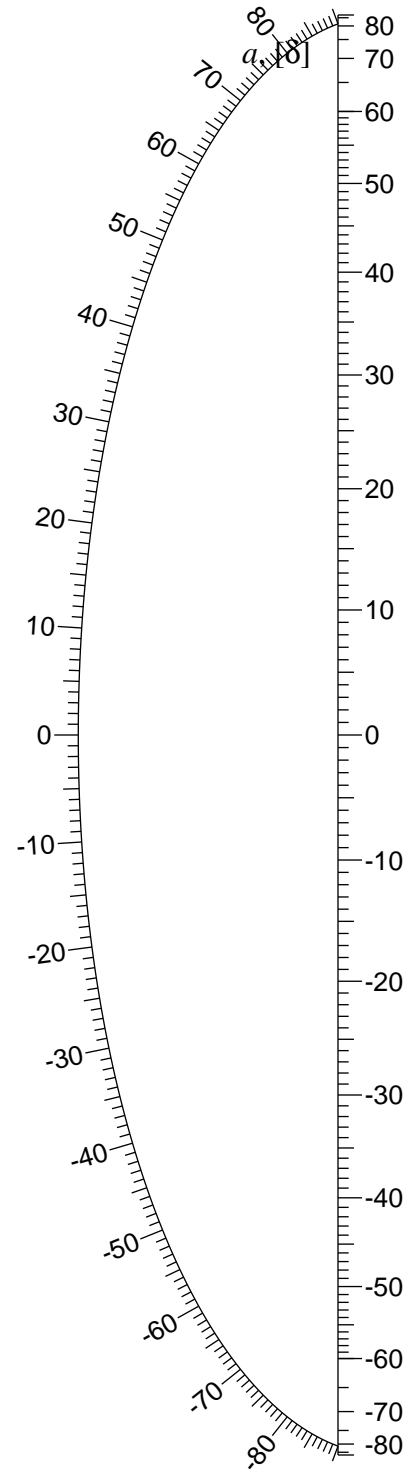


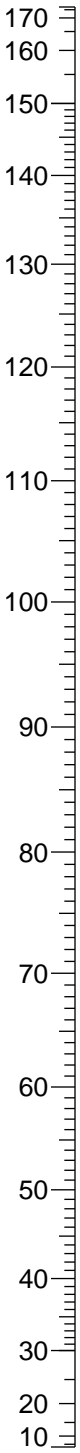
$H, [Az]$

Latitude 81°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



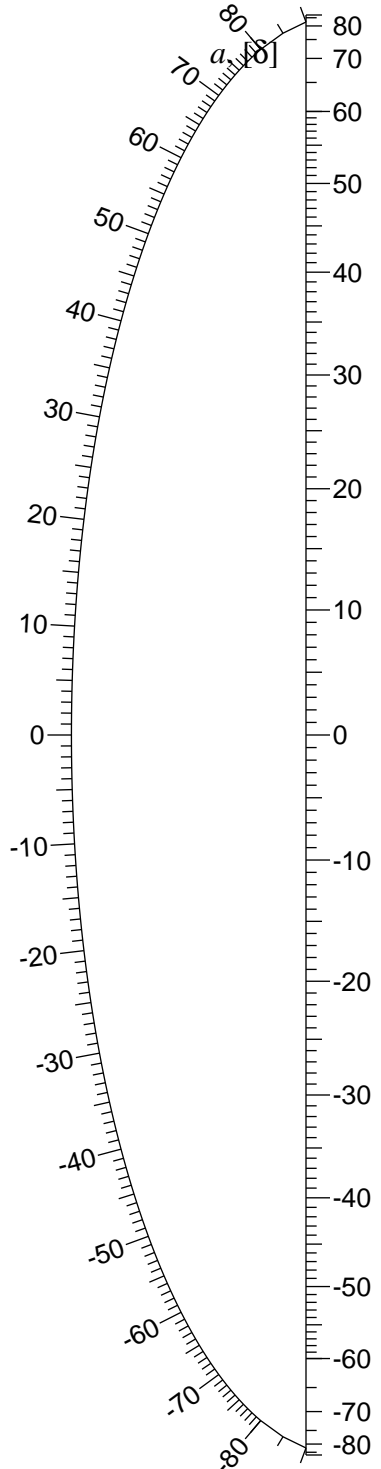


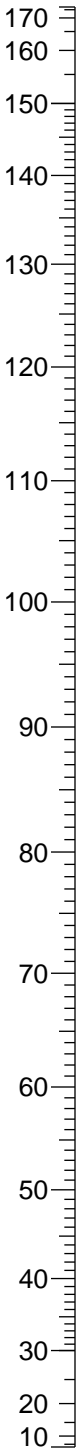
$H, [Az]$

Latitude 82°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



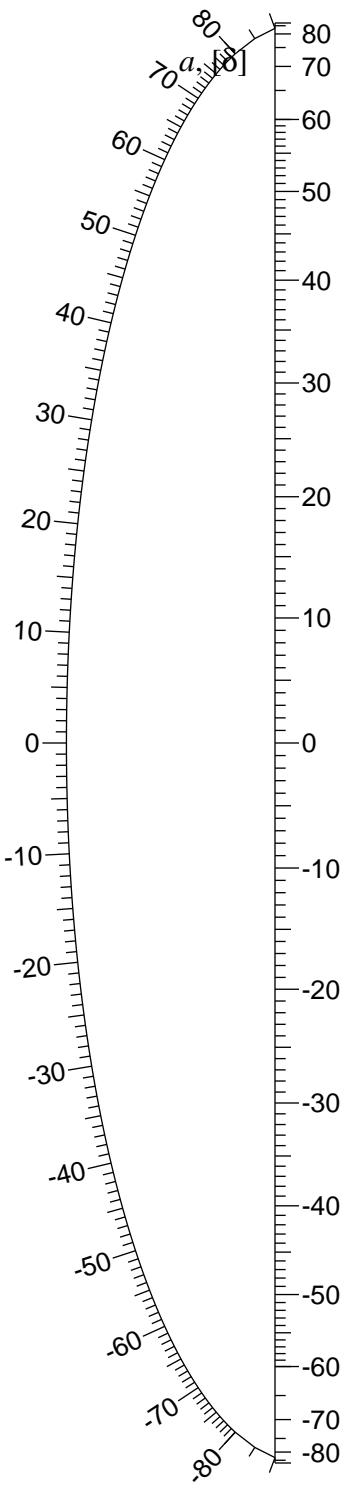


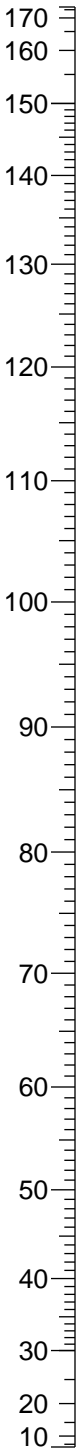
$H, [Az]$

Latitude 83°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$



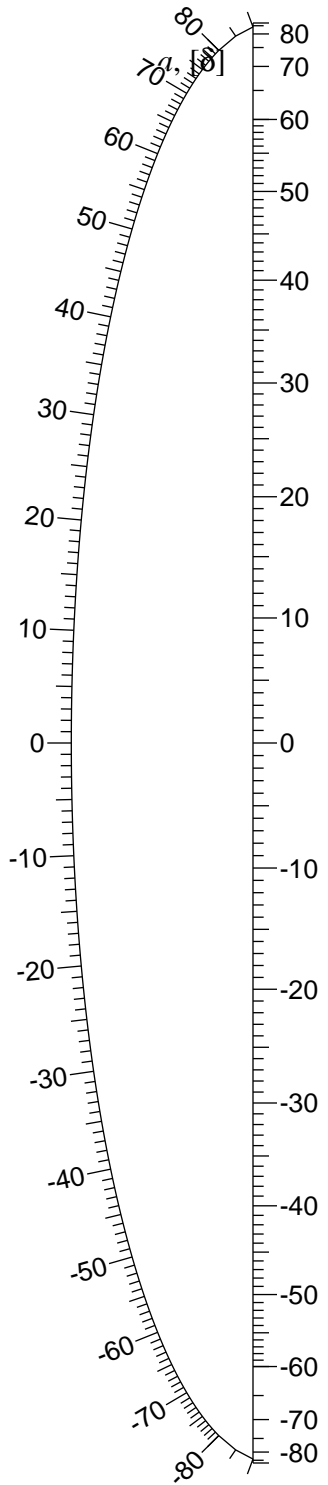


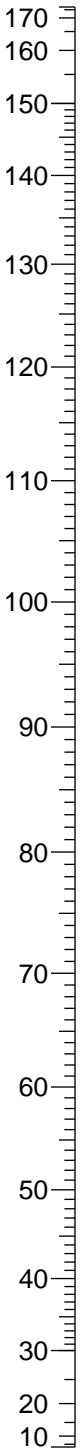
$H, [Az]$

Latitude 84°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$





$H, [Az]$

Latitude 85°

$$\sin a = \sin \phi \sin \delta + \cos \phi \cos \delta \cos H$$

$$[\sin \delta = \sin \phi \sin a + \cos \phi \cos a \cos Az]$$

