

SIGHT REDUCTION FORM

CALCULATED ALTITUDE

AGETON CLASSIC	COMPUTATIONAL METHOD
$L \text{ _____ } A$ $d \text{ _____ } +A$ $A^{-1} \text{ _____ } \sin$ $L \text{ _____ } B$ $d \text{ _____ } +B$ $t \text{ _____ } +B$ $B^{-1} \text{ _____ } \cos \rightarrow (1) \pm$ $\sin^{-1} \text{ _____ } \rightarrow (2) \pm$ $Hc = \text{ }^\circ \text{ '}$	$L \text{ _____ } \sin$ $d \text{ _____ } * \sin \text{ _____}$ $L \text{ _____ } \cos$ $d \text{ _____ } * \cos$ $t \text{ _____ } * \cos \text{ _____}$ $\rightarrow (1) \pm$ $\sin^{-1} \text{ _____ } \rightarrow (2) \pm$ $Hc = \text{ }^\circ \text{ '}$
RULES: (1) + d & L are same name - d & L are contrary	(2) + $t \leq 90^\circ$ - $t > 90^\circ$

CALCULATED AZIMUTH

AGETON CLASSIC	COMPUTATIONAL METHOD
$d \text{ _____ } B$ $t \text{ _____ } +A$ $Hc \text{ _____ } -B$ $A^{-1} \text{ _____}$ $Z = \text{ }^\circ \text{ '}$ $\text{Apply rule for } Zn = \text{ }^\circ \text{ '}$	$d \text{ _____ } \cos$ $t \text{ _____ } * \sin \text{ _____}$ $Hc \text{ _____ } / \cos \text{ _____}$ $\sin^{-1} \text{ _____}$ $Z = \text{ }^\circ \text{ '}$ $\text{Apply rule for } Zn = \text{ }^\circ \text{ '}$
RULES FOR Z_n Position of you (y) verses body (b):	
b is north and east of y : $Z_n = Z$ b is north and west of y : $Z_n = 360 - Z$	b is south and east of y : $Z_n = 180 - Z$ b is south and west of y : $Z_n = 180 + Z$

PRIME VERTICAL

AGETON CLASSIC	COMPUTATIONAL METHOD
$d \text{ _____ } A$ $L \text{ _____ } -A$ $A^{-1} \text{ _____}$ $Pv = \text{ }^\circ \text{ '}$	$d \text{ _____ } \sin$ $L \text{ _____ } / \sin \text{ _____}$ $\sin^{-1} \text{ _____}$ $Pv = \text{ }^\circ \text{ '}$

CALCULATED AMPLITUDE

AGETON CLASSIC	COMPUTATIONAL METHOD
$d \text{ _____ } A$ $L \text{ _____ } -B$ $A^{-1} \text{ _____}$ $Z = \text{ }^\circ \text{ '}$ $\text{Apply rule for } Zn = \text{ }^\circ \text{ '}$	$d \text{ _____ } \sin$ $L \text{ _____ } / \cos \text{ _____}$ $\sin^{-1} \text{ _____}$ $Z = \text{ }^\circ \text{ '}$ $\text{Apply rule for } Zn = \text{ }^\circ \text{ '}$
RULES FOR Z_n Position of you (y) verses body (b):	
b is north and east of y : $Z_n = 90 - Z$ b is north and west of y : $Z_n = 270 + Z$	b is south and east of y : $Z_n = 90 + Z$ b is south and west of y : $Z_n = 270 - Z$