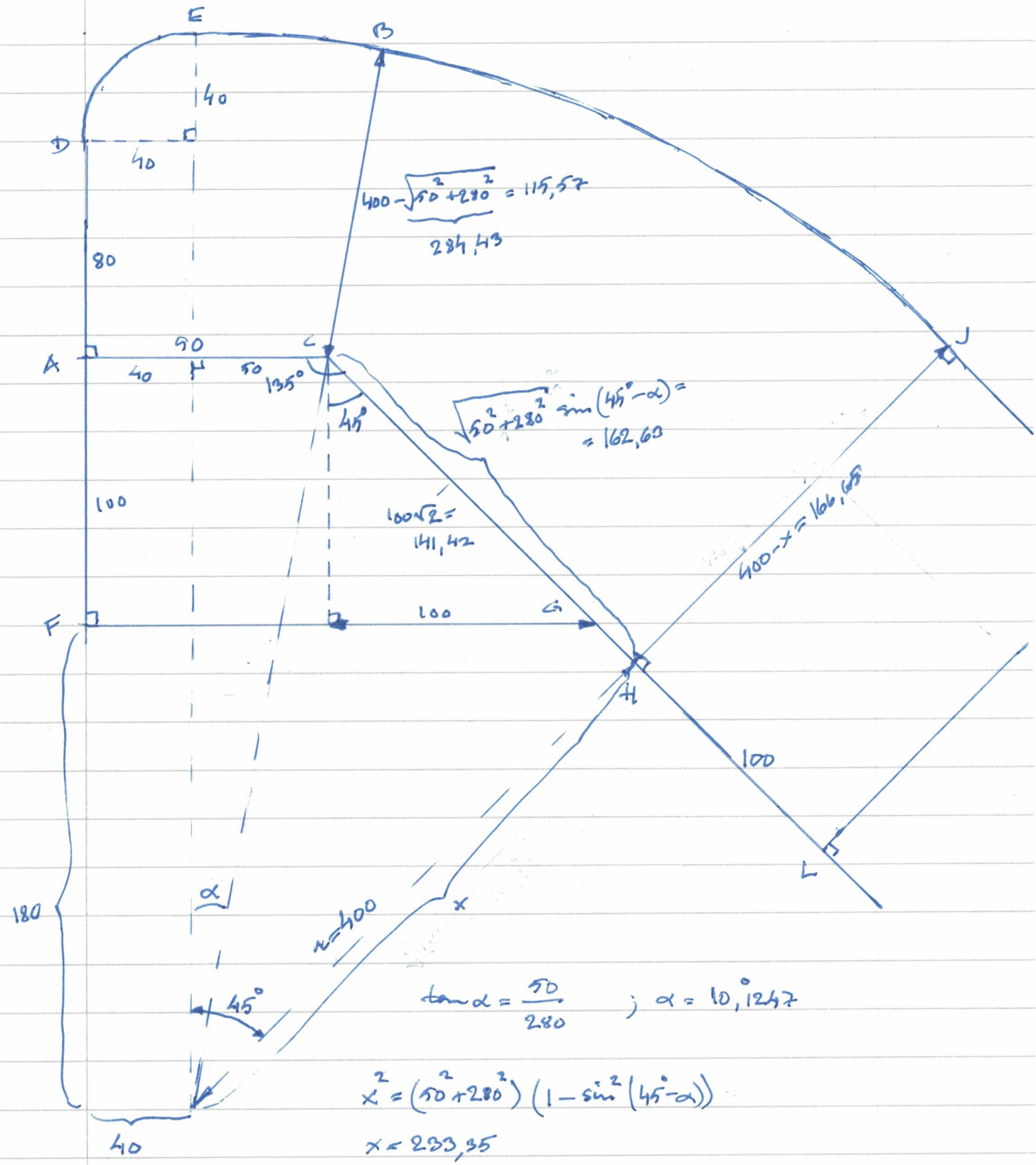

$\tan\alpha = \frac{50}{280}$; $\alpha = 10,1247°$

$x^2 = (50^2+280^2)\left(1-\sin^2(45°-\alpha)\right)$

$x = 233,35$