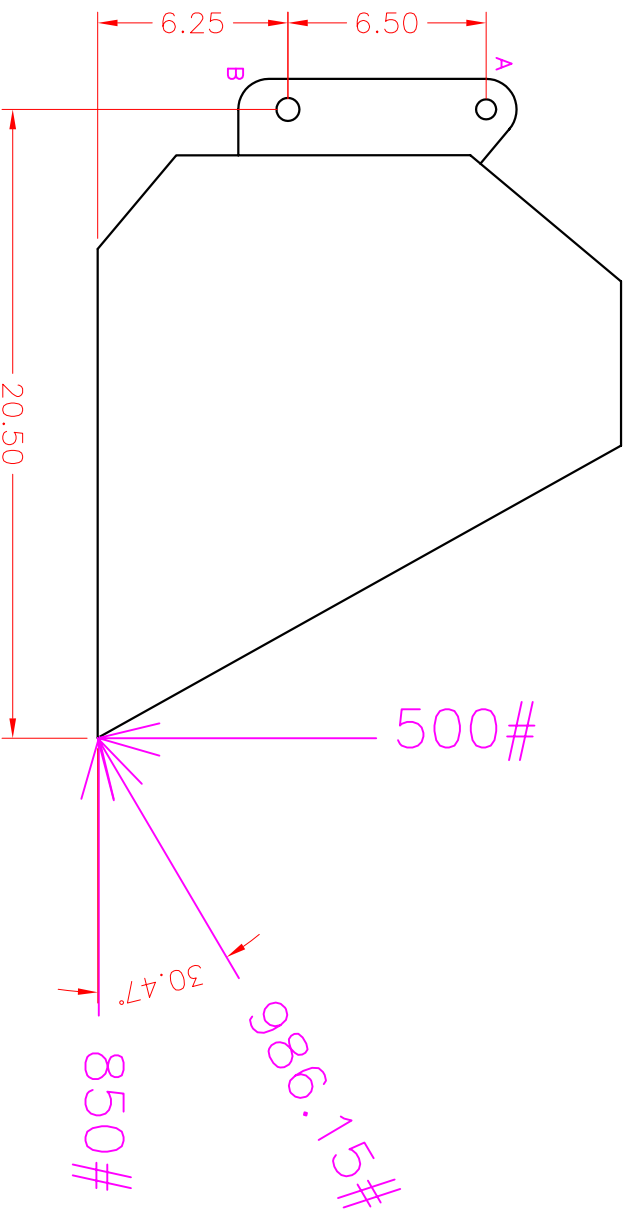


STEP 1



$$A^2 + B^2 = C^2$$

$$500\#^2 + 850\#^2 = 972,500\#^2$$

$$\sqrt{972,500\#^2} = 986.15\# = C$$

$$\text{TAN } \theta = \frac{\text{OPP}}{\text{HYP}}$$

$$\text{TAN } \theta^{-1} = \frac{\text{OPP}}{\text{HYP}} = \frac{500\#}{850\#} = 30.47^\circ$$