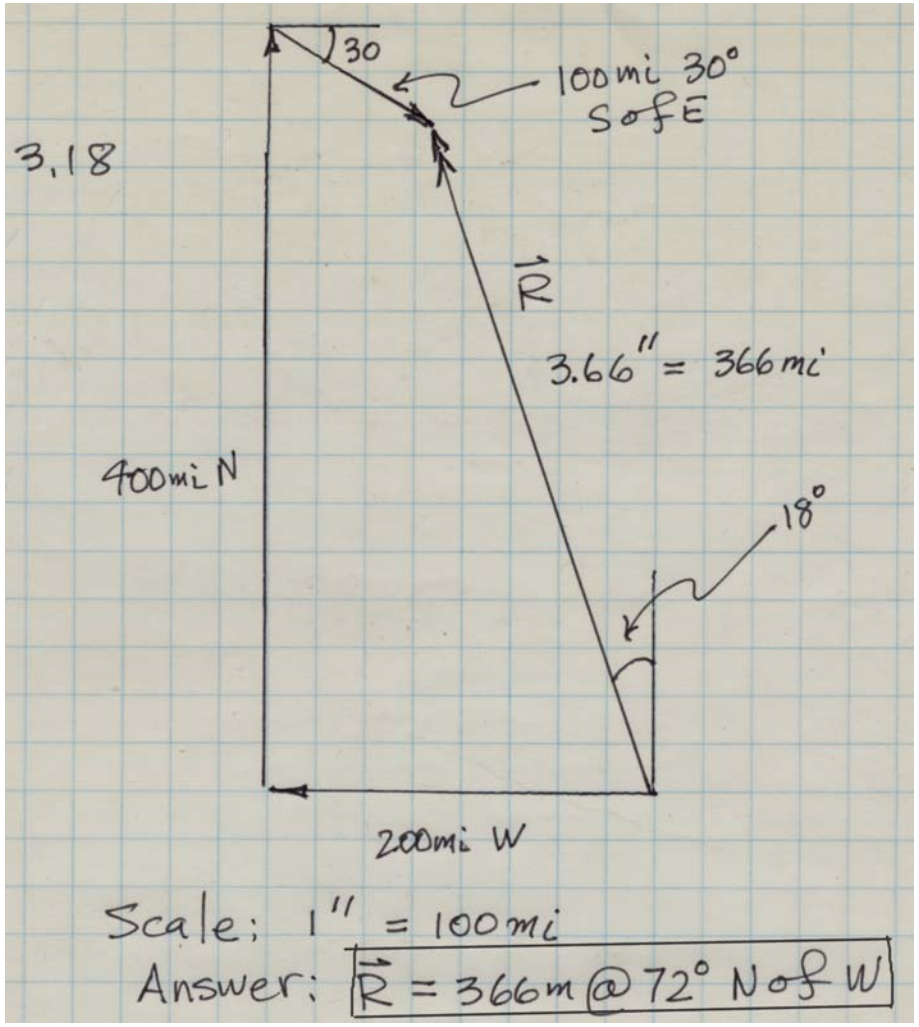
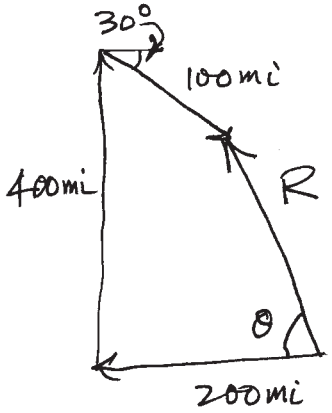


Problem 3.18 done analytically:

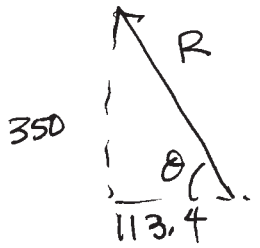


$R_x = -200 + 0 + 100\cos 30°$

$= -200 + 86.6 = \boxed{-113.4\text{mi}}$

$R_y = 0 + 400 - 100\sin 30°$

$= 400 - 50 = \boxed{350\text{mi}}$



$\tan\theta = \frac{350}{113.4}$

$\theta = 72°$

$R^2 = 113.4^2 + 350^2$

$R = 368\text{ mi}$

Answer: $\boxed{\vec{R} = 368\text{mi} \measuredangle 72° \text{ N of W}}$