

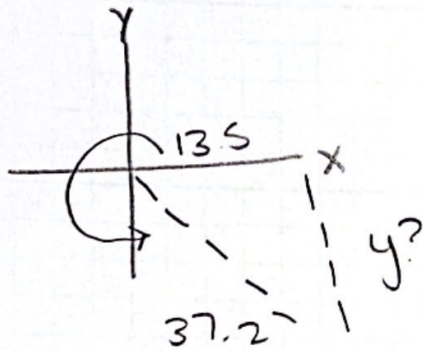
given:  $x_{com} = 13.5$  ft positive, magnitude = 37.2 ft.

Vector = downward movement

Find  $y_{com}$ .

$$\text{Equation} = \sqrt{(13.5)^2 + (y)^2} = \text{magnitude}$$

$$y_{com} = 34.6 \text{ ft.}$$



Find Beta (B)

$$\tan^{-1} \left( \frac{34.6}{13.5} \right) = 68.68$$

$$360 - 68.68 = 291.32 \text{ deg.}$$