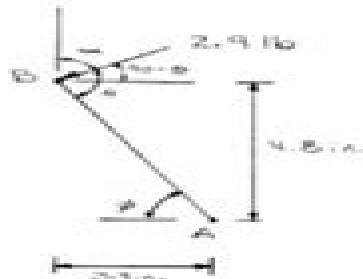


## Chapter 3, Solution 5.



By definition

$$M_A = r_{BA} P \sin \phi$$

where

$$\phi = \phi + (90^\circ - \alpha)$$

and

$$\phi = \tan^{-1} \left( \frac{4.8 \text{ in.}}{3.4 \text{ in.}} \right)$$

$$= 54.689^\circ$$

$$\text{Also } r_{BA} = \sqrt{(3.4 \text{ in.})^2 + (4.8 \text{ in.})^2}$$

$$= 5.8822 \text{ in.}$$

Then

$$(17.10 \text{ lb}) = (5.8822 \text{ in.})(2.9 \text{ lb}) \sin(54.689^\circ + 90^\circ - \alpha)$$

or

$$\sin(144.689^\circ - \alpha) = 0.99658$$

or

$$144.689^\circ - \alpha = 85.260^\circ, 94.740^\circ$$

$$\therefore \alpha = 49.9^\circ, 59.4^\circ \blacksquare$$

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**Raffaela Di Napoli**

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