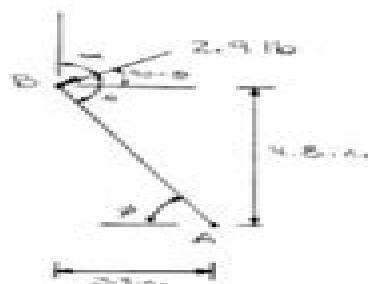


Chapter 3, Solution 5.



By definition $M_A = r_{BA} P \sin \theta$
 where $\theta = \phi + (90^\circ - \alpha)$
 and $\phi = \tan^{-1} \left(\frac{4.8 \text{ in.}}{3.4 \text{ in.}} \right)$
 $= 54.689^\circ$

Also $r_{BA} = \sqrt{(3.4 \text{ in.})^2 + (4.8 \text{ in.})^2}$
 $= 5.8822 \text{ in.}$

Then $(17 \text{ lb in.}) = (5.8822 \text{ in.})(2.9 \text{ lb}) \sin(54.689^\circ + 90^\circ - \alpha)$
 or $\sin(144.689^\circ - \alpha) = 0.99658$
 or $144.689^\circ - \alpha = 85.260^\circ, 94.740^\circ$

$\therefore \alpha = 49.9^\circ, 59.4^\circ \quad \blacktriangleleft$

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Raffaela Di Napoli



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