

2/83 | Equivalent force-couple system at A:

$$\underline{R} = -2500\hat{j} - 1200\hat{j} + 800(\sin 30^\circ\hat{i} + \cos 30^\circ\hat{j})$$
$$= \underline{400\hat{i} - 3010\hat{j} \text{ lb}}$$

$$\Rightarrow M_A = 2500(4) + 1200(4 + 4\cos 30^\circ + 3)$$
$$- 800\sin 30^\circ(2\sin 30^\circ) - 800\cos 30^\circ(4 + 2\cos 30^\circ)$$
$$= \underline{18,170 \text{ lb-ft CW}}$$



Condition: $x|R_y| = M_A$

$$x = \frac{18,170}{3010} = \underline{6.05 \text{ ft}}$$

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JA Banks



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