



$$\curvearrowright M_B = \frac{450}{\sqrt{13}} (0.6) + \frac{300}{\sqrt{13}} (0.6) = \frac{450}{\sqrt{13}} \text{ N}\cdot\text{m}$$

$$\text{or } \underline{M_B = 124.8 \text{ N}\cdot\text{m CW}}$$

$$\text{With } \theta = \tan^{-1} \frac{2}{3} = 33.7^\circ, \underline{F} = 150(\cos 33.7^\circ \underline{i} + \sin 33.7^\circ \underline{j}) \text{ N}$$

$$\text{With } \underline{r} = -0.6\underline{i} + 0.6\underline{j} \text{ m}, \underline{M}_B = \underline{r} \times \underline{F} \text{ yields}$$

$$\underline{M}_B = -124.8 \underline{k} \text{ N}\cdot\text{m}, \underline{M}_B = 124.8 \text{ N}\cdot\text{m}, \text{ as before.}$$

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