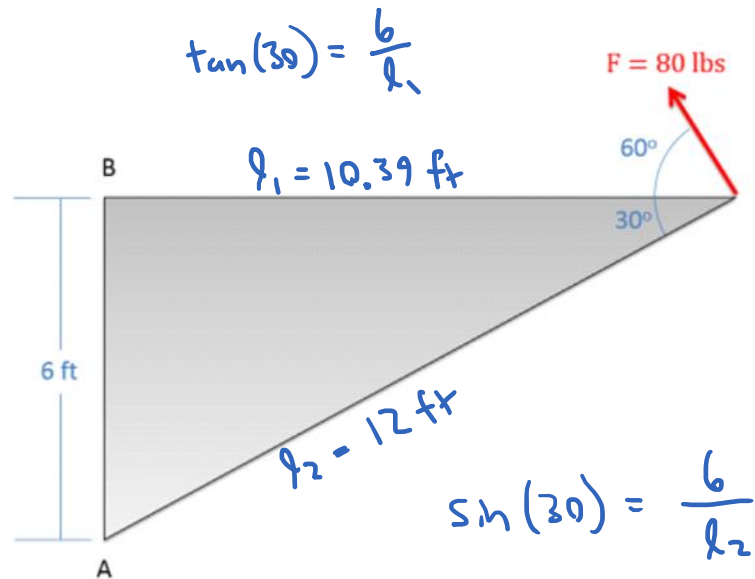


## Question 2

What is the magnitude of the moment that this force exerts...

- about point A?
- about point B?



$M_A$ )

$$\vec{r} = [10.39, 6, 0] \text{ ft}$$

$$\vec{F} = [-80 \cos(60), 80 \sin(60), 0] \text{ lbs}$$

$$\vec{M}_A = \vec{r} \times \vec{F} = [0, 0, 960] \text{ ft lbs}$$

$$M_A = 960 \text{ ft lbs}$$

$M_B$ )

$$\vec{r} = [10.39, 0, 0]$$

$$\vec{F} = [-80 \cos(60), 80 \sin(60), 0]$$

$$\vec{M}_B = \vec{r} \times \vec{F} = [0, 0, 720]$$

$$\boxed{M_B = 720 \text{ ft lbs}}$$