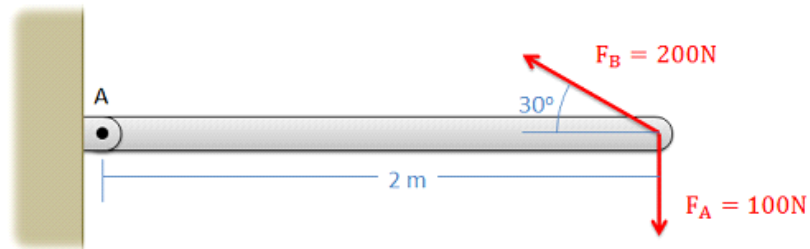


# Problem 1

What is the moment that Force A exerts about point A? What is the moment that Force B exerts about Point A?



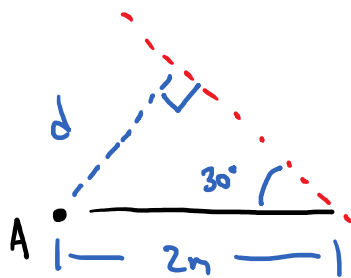
$F_A$ )

$$M_A = (F)(d) = (100 \text{ N})(2 \text{ m}) \quad \downarrow \text{ clockwise is negative}$$

$$\boxed{M_A = -200 \text{ Nm}}$$

$F_B$ )

$$M_A = (F)(d) = (200 \text{ N})(2 \sin(30) \text{ m}) \quad \uparrow \text{ counter clockwise is positive}$$



$$d = 2 \sin(30)$$

$$\boxed{M_A = 200 \text{ Nm}}$$