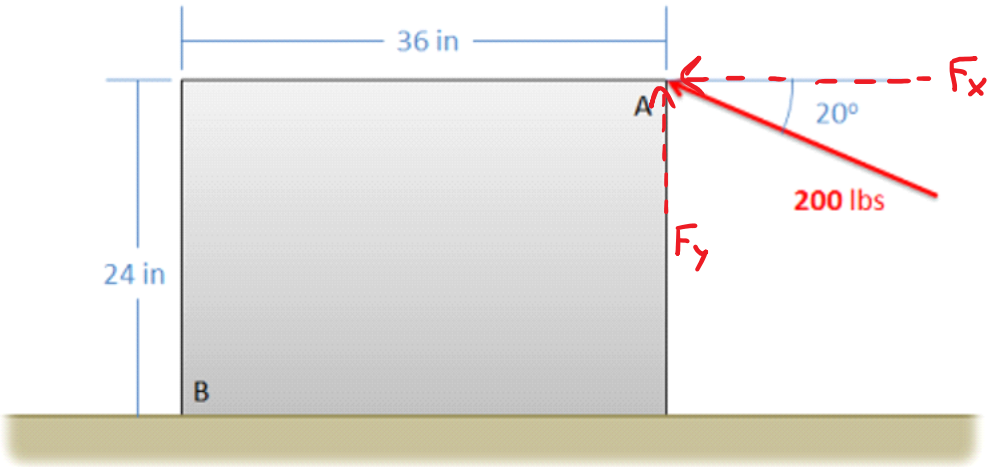
Question 2

Use Varignon's Theorem to determine the moment that the force at point A exerts about point B.



$$M_B = (F_x)(d_y) + (F_y)(d_x)$$

$$M_B = (200\cos(20))(24\text{ in}) + (200\sin(20))(36\text{ in})$$

$$\boxed{M_B = 6973.1\text{ in lbs} = 581.1\text{ ft lbs}}$$