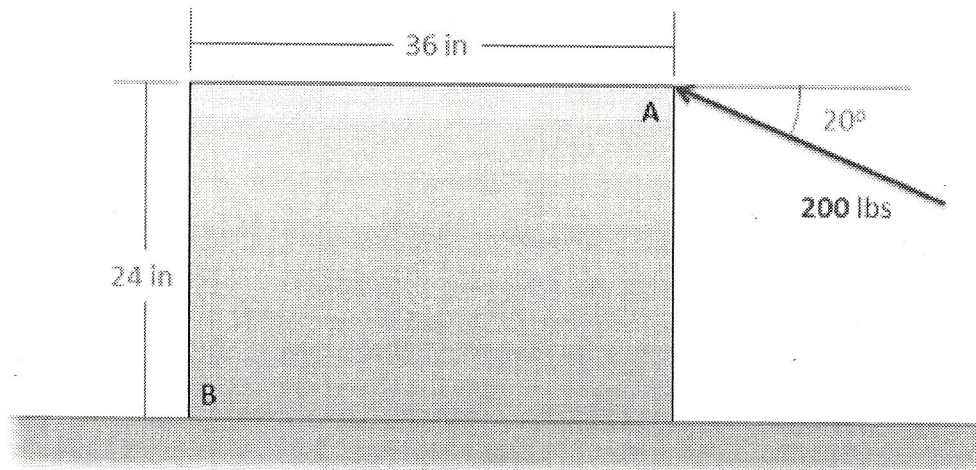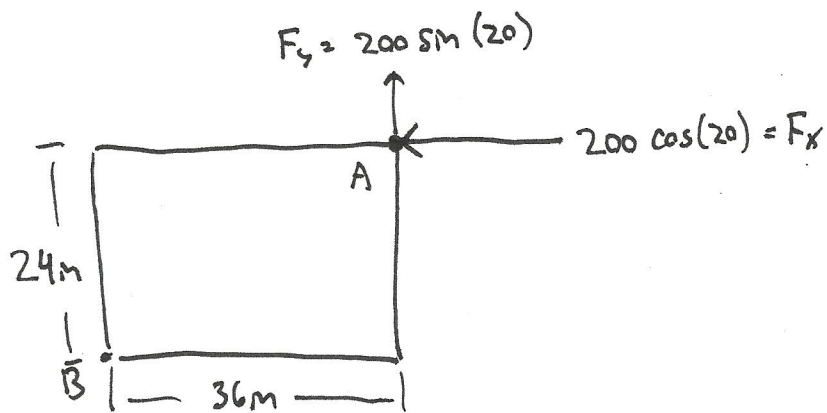## Question 2:

Use Varignon's Theorem to find the moment that the force in the diagram below exert about point B.

Calculations!

$$M_B = \left(200 \sin (20)\right)\left(3 ft\right) \uparrow + \left(200 \cos(20)\right)\left(2 ft\right) \uparrow$$

$$M_B = 205.2 \text{ ft lbs} + 375.9 \text{ ft lbs}$$

Solution!

$$M_B = 581.1 \text{ ft lbs}$$