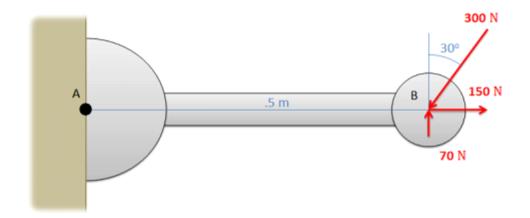
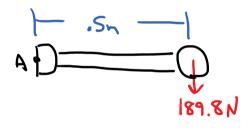
Question 1

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



$$\Sigma F_{x} = -300 \, sin (30) + 150 = 0$$

 $\Sigma F_{y} = -300 \, cos (30) + 70 = -189.8 \, N$



$$M = F*2 = (189.8N)(.5m) = 94.9 Nm 2$$