Question 3
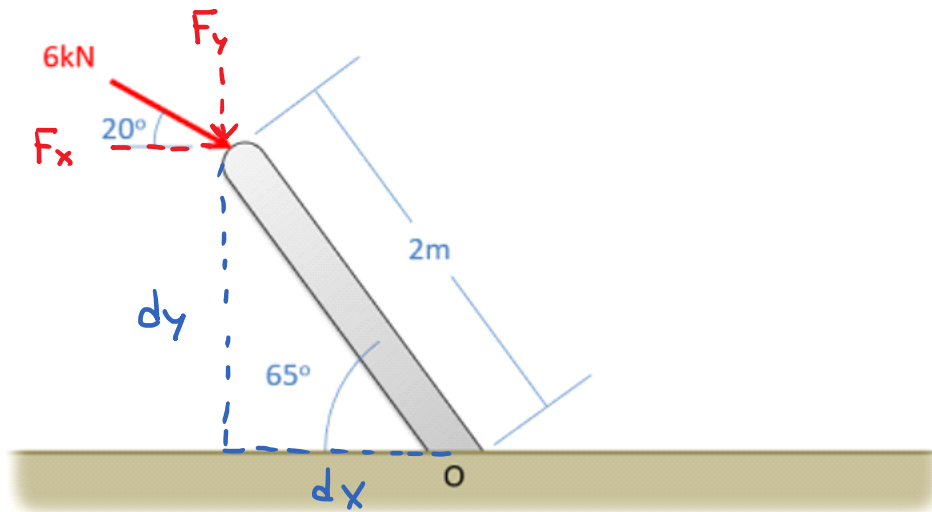
Use Varignon's Theorem to determine the moment that the force shown below exerts about the base of the post at point O.

$$M_o = -(F_x)(d_y) + (F_y)(d_x)$$

$$M_o = -(6\cos(20))(2\sin(65)) + (6\sin(20))(2\cos(65))$$

$$\boxed{M_o = -8.49 \text{ kN m}}$$