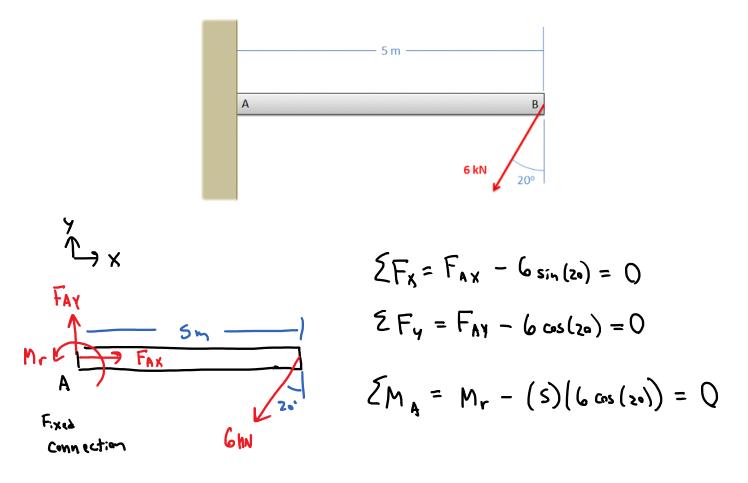
Question 2

A 5 meter long beam has a fixed connection to a wall at point A and a force acting as shown at point B. What are the reaction forces acting on the beam at point A?



$$F_{AX} = 6 \sin(2\alpha) = 2.05 \text{ hJ}$$

$$F_{AY} = 6 \cos(2\alpha) = 5.64 \text{ hJ}$$

$$M_{f} = (5)(6)\cos(2\alpha) = 28.19 \text{ hJ} \text{ m}$$