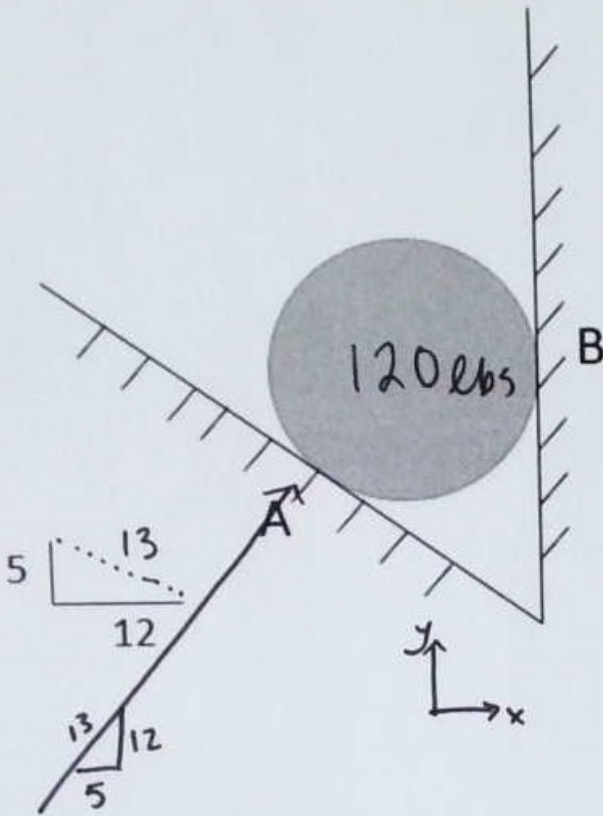
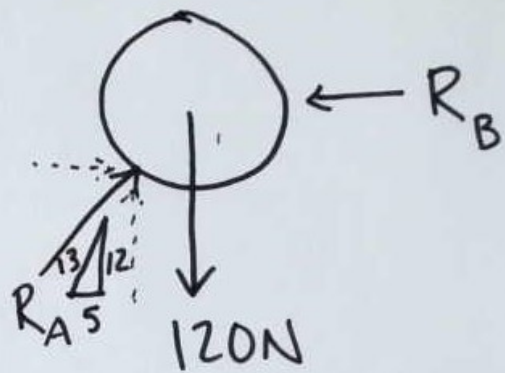


A cylinder with a weight of 120 pounds rests between two frictionless walls. Calculate the wall reaction at point A.



FBD



$$\sum F_x = 0$$

$$\sum F_y = 0$$

$$\sum F_y = 0 = -120\text{ N} + R_A \left(\frac{12}{13} \right)$$

$$R_A = 120\text{ N} \left(\frac{13}{12} \right)$$

$$R_A = 130\text{ N}$$