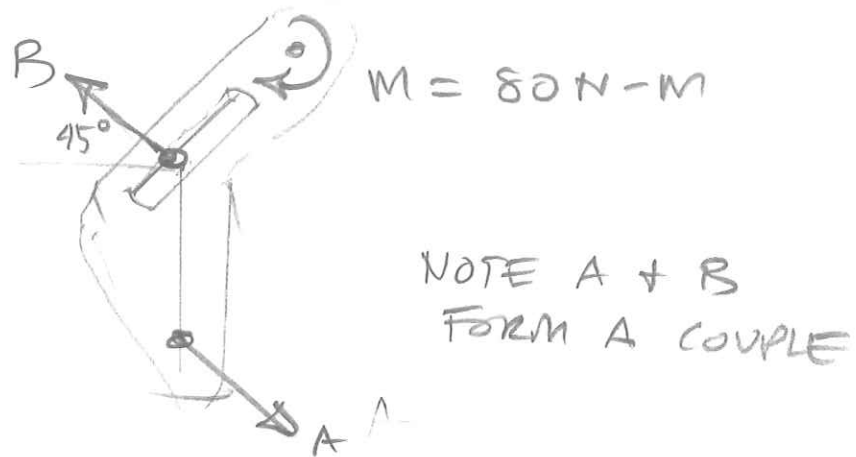
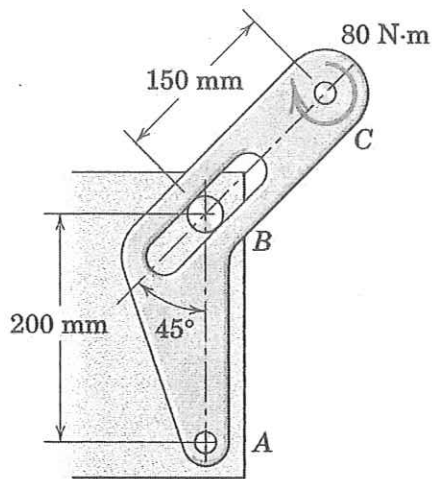


Light bracket ABC is freely hinged at A and constrained by the fixed pin in a smooth slot at B . Determine the magnitude and direction of the force supported by pin B under the action of the 80 N-m couple at C .



$$\underline{\Sigma M_A = 0}$$

$$B_x(200) = M$$

$$B \cos 45 (1.2 \text{ m}) = 80 \text{ N-m}$$

$$\underline{B = 565 \text{ N}}$$

$$\underline{\underline{B = 565 \text{ N} @ 45^\circ \perp}}$$