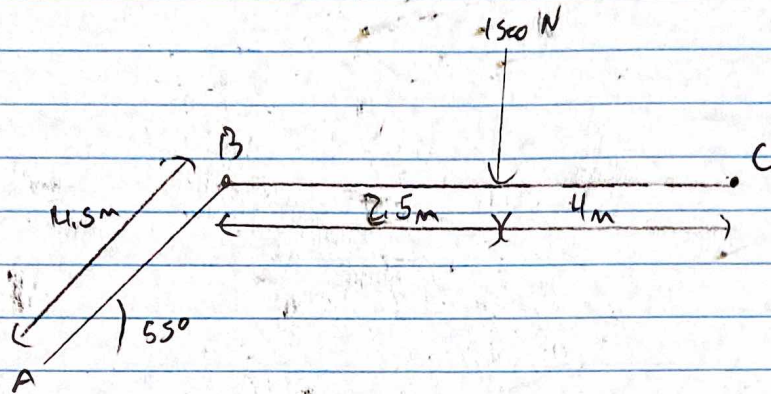
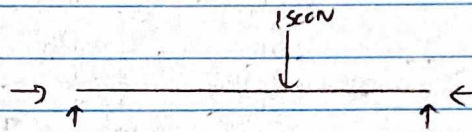


Solution: 21-5-6.6-Mk-07

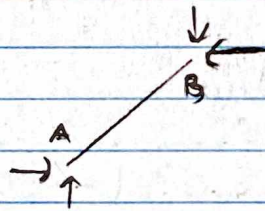


Member BC



$$\sum M_C = (1500\text{ N})(4\text{ m}) - B_y(2.5 + 4) \rightarrow B_y = 923.1\text{ N}$$

Member AB



$$\sum M_A = 0 = B_x(4.5 \sin 55) - B_y(\cos 55)(4.5) \rightarrow B_x = 646.3\text{ N}$$

Member BC

$$\sum F_x = 0 = B_x - C_x \rightarrow C_x = 646.3\text{ N}$$

$$\sum F_y = 0 = B_y - C_y - 1500 \rightarrow C_y = 576.9\text{ N}$$