

consider BCD

$$\circlearrowleft \sum M_B = 0, -(2.4\text{m})(R_C \cos(41.63)) - (3.6\text{m})(2400\text{N}) = 0$$

$$R_C = -4816\text{N} \\ = 4816\text{N} \downarrow$$

$$+\uparrow \sum F_y = 0, -R_{By} - (-4816 \cos(41.63)) - 2400\text{N} = 0$$

$$R_{By} = 1200\text{N} \uparrow$$

consider ABE

$$+\uparrow \sum F_y = 0, 600\text{N} + 1200\text{N} + R_{Ay} = 0, R_{Ay} = -1800\text{N} \\ = 1800\text{N} \downarrow$$

consider ACF

$$\circlearrowleft \sum M_A = 0, (5.4\text{m})(R_{Fx}) + (4.8\text{m})(1800) + (3.61\text{m})(-4816 \sin(41.63)) + (2.7\text{m})(-4816 \cos(41.63)) = 0$$

$$R_{Fx} = 2338.69\text{N} \rightarrow$$

$$\rightarrow \sum F_x = 0, -R_{Ax} + (-4816 \cos(41.63)) - 2338.69 = 0$$