

$$\sum M_A = 0 \quad (\text{lb}\cdot\text{ft})$$

$$0 = -(1500 \cos 60)(12) + G_x(F)$$

$$G_x = \underline{\underline{1949.56 \text{ lb}}}$$

$$\sum M_G = 0 \quad (\text{lb}\cdot\text{ft})$$

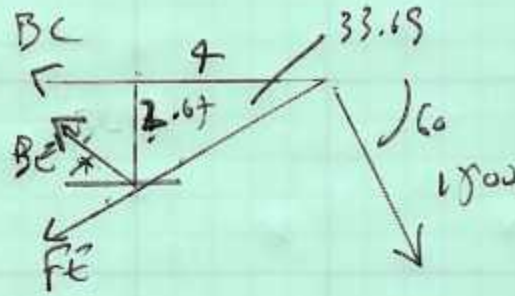
$$0 = +A_x(F) - (1500 \cos 60)(F) - (1500 \sin 60)(12)$$

$$A_x = \underline{\underline{2699.56}}$$

$$\sum F_y = 0 \quad (\text{lb})$$

$$0 = +A_y - 1500 \sin 60$$

$$A_y = \underline{\underline{1299.04 \text{ lb}}}$$



$$\sum M_E = 0 \quad (15 \text{ ft})$$

$$0 = -1500 (\cos 60) (2.67) + -(1500 \sin 60) (9) + BC (2.67)$$

$$BC = \underline{\underline{2696.12 \text{ N}}}$$

$$\sum M_D = 0 \quad (15 \text{ ft})$$

$$0 = -BE \sin (33.69) (9)$$

$$- BE (\cos 33.69) (2.67)$$

$$BE = \underline{\underline{0 \text{ N}}}$$

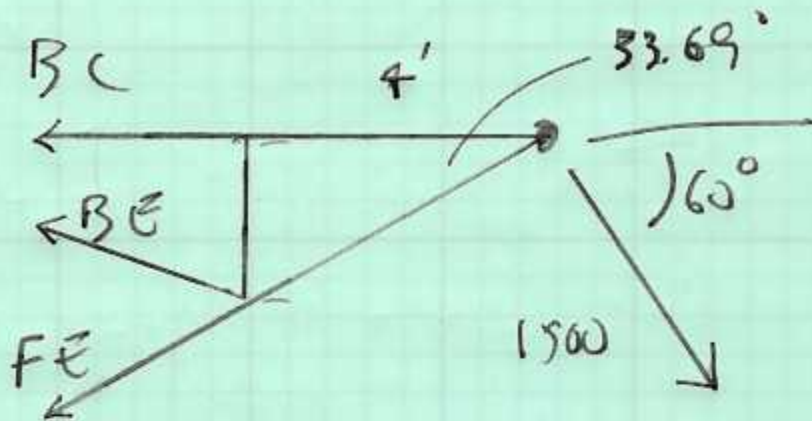
$$\sum F_x = 0$$

$$0 = -BC + 1500(\cos 60) - FE \cos 33.69$$

$$0 = -2686.12 + 750 - FE(0.832)$$

$$FE = \frac{2339.09}{0.832}$$

 ans

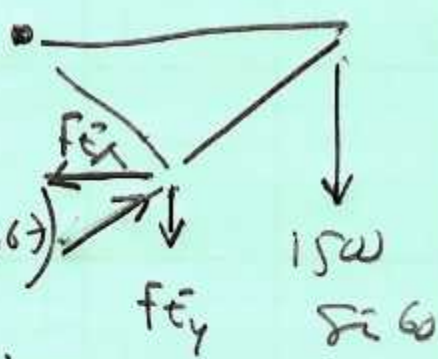


$$\sum M_E = 0 \text{ (lb-ft)}$$

$$0 = +BC(2.67) + -(750)(2.67) + -(1289)(4)$$

$$BC = \underline{\underline{2696.07}} \text{ lb (T)}$$

$$\Sigma M_B = \emptyset$$



$$\emptyset = - (F_E \cos 33.69)(2.67) + (F_E \sin 33.69)(4) + (1500 \sin 60)(8)$$

$$\emptyset = -F_E (4.44) + -10392$$

$$F_E = \underline{\underline{-2340.5^{st} lb}} \text{ (corr) (C)}$$

$$\Sigma F_y = 0$$

$$\emptyset = -1500 \sin 60 + BE \sin 33.69 + FE (\sin 33.69)$$

$$= -1299 + BE \sin 33.69 + 1299.36$$

$$BE \approx \underline{\underline{0}} \text{ Ans}$$