



$$\sum M_G^F = -(F_E \cdot 29.0000) - (F_D \cdot 11.0489) + (F_h \cdot 20.8304) = 0$$

$$M_G^F = -(3061.24 \cdot 29.0000) - (3943.0 \cdot 11.0486) + (F_h \cdot 20.8304) = 0$$

$$6353.24 = F_h$$

$$\sum \vec{F}_X = -F_E - F_D \cos 7.4168^\circ + h_j \cos 29.670^\circ - F_g = 0$$

$$-3061.24 - 3943.00 \cos 7.4168^\circ + 6353.24 \cos 29.670^\circ + F_g = 0$$

$$1450.11 = F_g$$

$$\sum \vec{F}_Y = -F_E - F_D \sin 7.4168^\circ + h_j \sin 29.670^\circ - F_g = 0$$

$$-9.14992 - 3943.00 \sin 7.4168^\circ - 6353.24 \sin 29.670^\circ - F_g = 0$$

$$3663.02 = F_g$$