



$$\sum M_c = 0$$

$$F_p * \cos 5^\circ * 8.5 - 308.65 * 33.72 = 0$$

$$F_p = \frac{308.65 * 33.72}{8.5 * \cos 5^\circ} = 1229 \text{ lbs}$$

$$\sum F_y = 0$$

$$F_p * \cos 5^\circ - R_c * \cos 15^\circ - 308.65 = 0$$

$$R_c = 948 \text{ lbs}$$

$$\sum F_x = 0$$

$$R_c * \sin 15^\circ - F_p * \sin 5^\circ = 0$$

$$138.25 \text{ lbs} = 0$$