



$$T_x = T \sin 15^\circ$$

$$T_y = T \cos 15^\circ$$

$$y: T_y + T_y + F_g = 0$$

$$2T_y - 245 = 0$$

$$2T_y = 245$$

$$T_y = 122.5$$

$$\frac{122.5 = T \cos 15^\circ}{.9659}$$

$$T = 126.82 \text{ N}$$