

Horizontal: $F_{net} = F_{a_x} - F_f$

Vertical: $F_g = F_{a_y} + F_N$ so $F_N = F_g - F_{a_y}$

Put them together...

$$F_{net} = F_{a_x} - \mu F_N$$

$$F_{net} = F_{a_x} - \mu (F_g - F_{a_y})$$

$$11N = F_a \cos 25^\circ - 0.3(49N - F_a \sin 25^\circ)$$

$$11N = 0.906F_a - 14.7N + 0.3(F_a \sin 25^\circ)$$

$$11N = 0.906F_a - 14.7N + 0.127F_a$$

$$25.7N = 1.033F_a$$

$$F_a = 25N$$