



θ° off horiz.

$a_x = ?$
 not static

$$\sum F_x = +mg \cos 70 = ma_x$$

$$9.8 \cos 70 = a_x$$

$$3.35 \frac{m}{s^2} = a_x$$

$$\sum F_y = +F_n - mg \sin 70 = ma_y$$

$$F_n = mg \sin 70$$

1) FBD
 F_s from center
 $F_n \perp$ surface
 mg down

2) on incline
 rotate axes
 $x \parallel$ surface

3) sum comp.