

#17 page 235

$W = 2690 \text{ J}$

$d = 23 \text{ m}$

32°

F_y (down), F_x (right), N (up), F (left)

$F = ?$

$\cos \theta = \frac{F_x}{F}$

$F = \frac{F_x}{\cos \theta}$

$F = \frac{116.95}{\cos 32} = 137.9 \text{ N}$

$W = F_x d$ $F_x = \frac{W}{d}$

$F_x = \frac{2690 \text{ J}}{23 \text{ m}}$

$F_x = 116.95 \text{ N}$

May 9-10:16 AM