



	x	y
$F_R$	$-F_R$	0
$F_{N_2}$	0	$F_{N_2}$
ma	ma	0

x:  
 $-F_R = ma$   
 but.. if it moves  
 then rope is slack  
 $\Rightarrow \underline{\underline{F_R = 0}}$

y:  
 $F_{N_2} - 50N = 0$   
 $\Rightarrow \underline{\underline{F_{N_2} = 50N}}$

	x	y
$F_{N_1}$	0	$F_{N_1}$
$F_{N_2}$	0	$-F_{N_2}$
$F_g$	45	0
ma	ma	0

x:  
 $450 = ma$   
 $\hookrightarrow 10 \text{ kg}$   
 $\Rightarrow a_x = \frac{4.5 \text{ N}}{\text{kg}} = \text{m/s}^2$

y:  
 $\underline{\underline{F_{N_1}}} - \underline{\underline{F_{N_2}}} - \underline{\underline{100N}} = 0$   
 $F_{N_1} = 100N + 50N$   
 $\underline{\underline{F_{N_1} = 150N}}$