



$\sum F_x = 0$  gives  $F = P$  for equilibrium

(a)  $P = 300 \text{ N}$ ,  $F = 300 \text{ N} < F_{max}$ , OK

(b)  $P = 400 \text{ N}$ ,  $F = 400 \text{ N} < F_{max}$ , OK

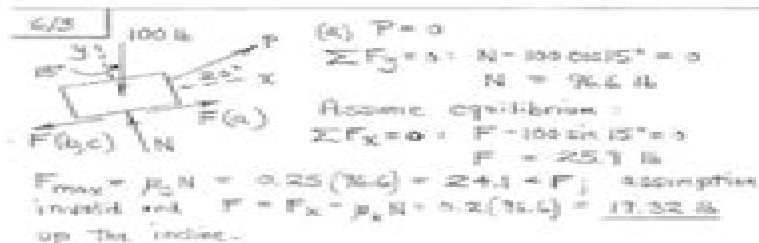
(c)  $P = 500 \text{ N}$ ,  $F = 500 \text{ N} > F_{max}$ , motion

So  $F = \mu_k N = 0.4(300) = 120 \text{ N}$

(use the  $\mu_k$ )



(d) For  $\theta = 45^\circ$ ,  $\sum F_y = 0$  gives  $F = 200 \cos 45^\circ = 141.4 \text{ N}$  which is  $< \mu_s R$



(b)  $P = 40 \text{ lb}$

$\sum F_y = 0: N - 100 \cos 15^\circ + 40 \sin 20^\circ = 0, N = 82.9 \text{ lb}$

$\sum F_x = 0: 40 \cos 20^\circ - 100 \sin 15^\circ - F = 0, F = 11.71 \text{ lb}$

$F_{max} = \mu_s N = 0.25(82.9) = 20.7 \text{ lb}$ ; assumption OK

(c)  $P = 60 \text{ lb}$

$\sum F_y = 0: N - 100 \cos 15^\circ + 60 \sin 20^\circ = 0, N = 76.1 \text{ lb}$

$\sum F_x = 0: 60 \cos 20^\circ - 100 \sin 15^\circ - F = 0, F = 30.5 \text{ lb}$

$F_{max} = \mu_s N = 0.25(76.1) = 19.02 \text{ lb} < F$ ; assumption invalid

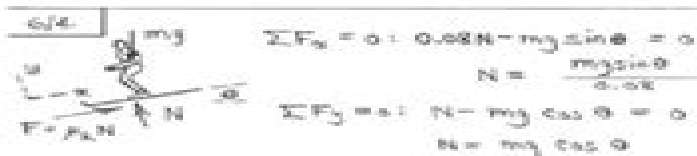
$F = \mu_k N = 0.2(76.1) = 15.21 \text{ lb}$  down the incline

(d) To initiate motion, set  $F = \mu_s N = 0.25N$  down the incline:

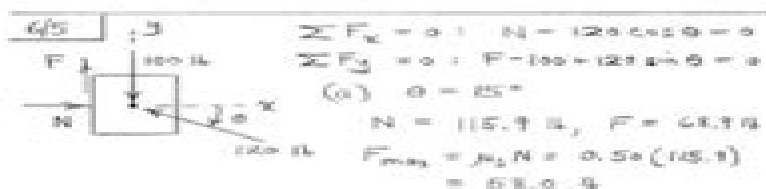
$\sum F_y = 0: N - 100 \cos 15^\circ + P \sin 20^\circ = 0$

$\sum F_x = 0: P \cos 20^\circ - 100 \sin 15^\circ - 0.25N = 0$

Solve to obtain  $\begin{cases} N = 79.9 \text{ lb} \\ P = 42.2 \text{ lb} \end{cases}$



So  $\frac{mg \sin \theta}{0.08} = mg \cos \theta, \tan \theta = 0.08, \theta = 4.57^\circ$



$F > F_{max}$ , so assumption of equilibrium is invalid and  $F = F_k = \mu_k N = 0.40(115.9) = 46.4 \text{ lb (up)}$

(b)  $\theta = 30^\circ$

$N = 103.9 \text{ lb}, F = 40 \text{ lb}$

$F_{max} = \mu_s N = 0.50(103.9) = 52.0 \text{ lb}$

$F < F_{max}$ , so equilibrium assumption OK  
 $\uparrow F = 40 \text{ lb (up)}$



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