



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

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

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

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

So $F = \mu_k N = 0.4(883) = \underline{353 \text{ N}}$

(all to the left)

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