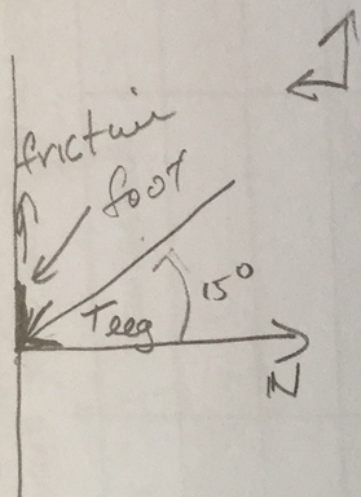


Sol'n HW # 3 prob 66

$$T_{leg} = 273 \text{ N}$$



		X	Y
+y	f	0	+μN
Q4	T_{leg}	$+T_{leg} \cos 15$	$-T_{leg} \sin 15$
-x	N	-N	0
fric	0	0	0

$$X: T_{leg} \cos 15 = N$$

$$273 (.966) = N$$

$$\boxed{263.7 \text{ N}}$$

$$Y: \mu N - T_{leg} \sin 15 = 0$$

$$\mu = \frac{T_{leg} \sin 15}{N} = \frac{273 (.259)}{263.7}$$

$$= 0.268$$