

HW07a

Monday, September 5, 2016 5:00 PM

Worker on incline:

$$a_x = \frac{P \sin \theta - Mg \cos \theta - \mu (P \cos \theta + Mg \sin \theta)}{M}$$

Box on wall:

$$P = \frac{Mg}{\sin \theta + \mu_s \cos \theta}$$

Climbers:

$$M = m (\mu \cos \theta - \sin \theta)$$

Blocks on incline: $P_{\max} = (m+M)g \mu \cos \theta$