

# HW06a

Monday, September 5, 2016 4:56 PM

Dwarves:

$$P = (M+m)a = 800N$$

$$T = ma = 200N$$

$$T = Ma = 600N$$

Atwood:

$$a = \frac{M-m}{M+m} g$$

$$T = \frac{2mM}{M+m} g$$

Double incline:

$$a_x = \frac{M \sin \theta - m \sin \varphi}{M+m} g$$

$$T = \frac{Mm g (\sin \theta + \sin \varphi)}{M+m}$$

Wedge:

$$F = (M+m) g \tan \theta$$