

Ch 5 Accel sheet # 11 Connected objects inclined plane

$N = F_{gy}$
 $F_{gy} = 3.92 \cos 30 = 3.39$
 $F_{gx} = 3.92 \sin 30 = 1.96$
 $F_{gx} = (0.1)(9.8) = .981$
 $F_{gy} = (.4)(9.8) = 3.92$
 $F = (.01)(3.39) = .339$
 $m = 0.1$
 $F_n = .981 - F_{gx} - F = .981 - 1.96 - .339 = \text{wrong div} = \text{1.3}$
 $F_n = F_{gx} - F_{gy} - f = 1.96 - .981 - .339 = 0.64$
 $a = \frac{F_n}{m_T} = \frac{0.64 \text{ N}}{0.5 \text{ kg}} = 1.28 \text{ m/s}^2$

Apr 10-10:17 AM