Phys 2110-4 2/8/12

Note Title 2/8/2012

Example 120 la mass a Hacked to mass acc's upward at 3.0 mg. Fmd tension in string. Inet, y = may T-mg=may = m + m = (2.0 m)(9.8 m/s) = m (9 + a) = (2.0 m)(9.8 m/s) = 25.6 N

City in elevator Example: A 10-ly mass is suspended from ropes as shown. Find tension in all the ropes.

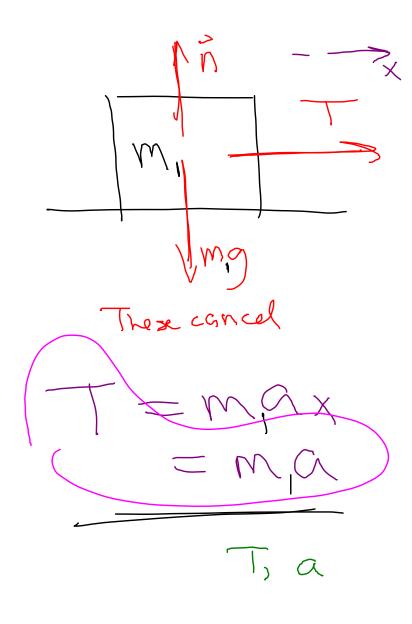
-T, + T200545° = 0 X- Forces + T2511450-98 N=0

4.45 Blocks are lined up as shown, 12 N 12N force off lied to 1eftmost What force does middle block exert on rightmost block. All brocks more together. Accel of all blocks in 2 mgs to the vight.

$$\frac{1}{4} = \frac{1}{3m^2} = m\alpha$$

$$\frac{1}{2m^3m^2} = m\alpha$$

Example: Masses 'joined by string as shown string goes over idea pulley, table 13 factorless Find acceleration of masses (L tension in string). Mags of accel's are same (joned by fring!)



$$M_2$$
 $M_2$ 
 $M_2$ 
 $M_2$ 
 $M_2$ 
 $M_3$ 
 $M_4$ 
 $M_4$ 
 $M_4$ 
 $M_5$ 
 $M_5$ 
 $M_6$ 
 $M_6$ 

$$T = m_1 \alpha$$

$$m_2 \alpha - T = m_2 \alpha$$

Dyg

$$m_2 g = m_1 a + m_2 a = (m_1 + m_2) a$$

$$C = \frac{m_1 + m_2}{m_1 + m_2}$$

$$=3.9\%$$

$$M_1 = 0$$

Similar problem Suppose M2>M1 Find accel of masses, tension in string. Atwoo Loo WHA