

$$V^2 = V_0^2 + 2a Cx - x_0$$

$$F = (7)(30.179)$$

Of
$$a \log 2$$
 Apparaul mass, $m_a = 58 kg$
 $f_7 = m_a g$

$$mg - f_T = ma$$
 $a = \frac{mg - f_T}{m} = \frac{(75x9.8) - (58x9.8)}{75}$

m

#3

a)

by

T₁:
$$3.2 \times 9.81 = 31.392 \approx 31N$$

T₂: $2 \times T_1 = 62.784 \approx 63N$

$$T_2$$
: $2xT_1 = 35.36 x 2$
= $70.72N$

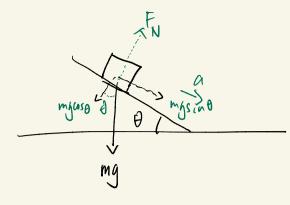
For body A is
$$F_{72} - F_{71} - m_{A}g = m_{A}a = 0$$

For body B: $F_{71} = F_{71} + m_{A}g = m_{B}a = 0$

For body B: $F_{71} - m_{B}g = m_{B}a = 0$
 $= 7 F_{71} = m_{B}g - 0$
 $= 7 F_{71} = m_{B}g - 0$
 $= 7 F_{71} = m_{B}g - 0$
 $= 83N$

b) $a = 1.25 \, \text{m/s}^2 \, \text{Cupward s}$
 $= 7 F_{71} = 35N$
 $= 7 F_{72} = 71N$

4



۵)

$$a = 3.67 \, \text{m/s}^2$$

b)

$$V^2 = V_0^2 + 2a (x - x_0)$$

a ?

Fr = g mamb

#5

mBg - MAA

mgg = mga + mga

 $\frac{m_{B}g}{m_{B}+m_{A}} = g\left(\frac{m_{B}}{m_{A}+m_{B}}\right)$

#6

#1

fs 2 Us FN

$$f_s = \mu_s N$$

$$= (0.3)(22x9.8)$$

$$= 64.68$$

$$\approx 65N$$

#8

a) mysint - MKN = ma

mgsind - Mx mg cost = ma

b)
$$V^2 = V_0^2 + 2a(2-2a)$$