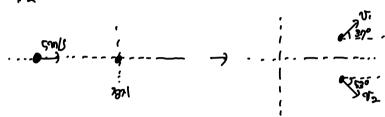
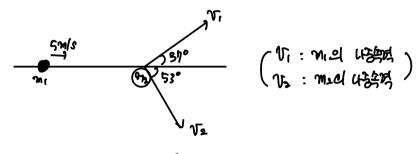
(937 #1.

(a) 
$$I = (1+5) \times \frac{1}{2} \times 4 = 12 \text{ N·S}$$
  $\therefore I = 12 \text{ N·S}$ 

(d) 
$$J = F \cdot t$$
  $F_{SS} = \frac{12N}{55} = 2.4N$  :  $F_{SS} = 2.4N$ 

#2



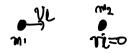


(.: M1 = M2)

551797 = V. COSENSIMEN + V2 COSESS. SIMEN - V. SIMEN - V. SIMEN + V2517 - COSENT

$$: \mathcal{V}_2 = 3.0 (\text{mb}, \mathcal{V}_1 = 3.99 \text{mb})$$





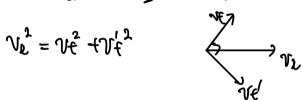


## (1) M1 = 712

1/88 : MINE = MINE COSDI + M2NE COSD2

YOU : D= MIVESIND, + MIVESIND

 $330111142 : \frac{1}{2}m_1V_2^2 = \frac{1}{2}m_1V_1^2 + \frac{1}{2}m_2V_1^2$ 



## @ m, cm2

milie = mily cost, + mert costs VE = Ut COOI + The COSO2 m2ve' = 7,2配 神母  $\frac{1}{2}m_1N_2^2 = \frac{1}{2}m_1N_1^2 + \frac{1}{2}m_2N_2^2$ V2 - VE + W2 VE CV. OUZ (40 E 112°09) + 10° 52 + 11° (40° 521 3 Cd) 3 m, 2m2

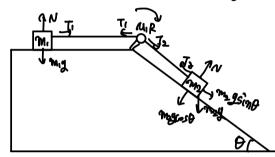
$$m_{1}V_{2} = m_{1}V_{5}(cs\theta_{1} + m_{2})V_{5}^{2}(cs\theta_{2})$$

$$V_{2} = V_{5}(cs\theta_{1} + \frac{m_{2}}{m_{1}})V_{5}^{2}(cs\theta_{2})$$

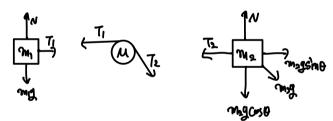
$$\frac{m_{2}}{m_{1}}V_{5}^{2} = V_{1} o(4)V_{2}^{2} = \frac{1}{2}m_{1}V_{5}^{2} + \frac{1}{2}m_{2}V_{5}^{2}$$

$$V_{2}^{2} = V_{5}^{2} + V_{2}^{2} o(17) \quad \text{Ne} \quad V_{2}^{2}o(18) \quad V_{2}^{2}(18) \quad V_{3}^{2}(18) + V_{5}^{2}(18) \quad \text{only of the } V_{3}^{2}(18) = V_{5}^{2}(18) + V_{5}^{2}(18) + V_{5}^{2}(18) = V_{5}^{2}(18) + V_{5}^{2}(18) + V_{5}^{2}(18) = V_{5}^{2}(18) + V_{5}^{2}(18)$$

(1075) # 1 m = 2001cy M2=600by R=0250m M=10.0by
8 = 80.0° PR = 0.360 & = 9.8 m/s<sup>2</sup>



(a) tree-body d'agram



(b)

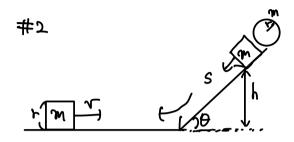
(3) 
$$R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$$
(4)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(5)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(6)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(7)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(8)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(9)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
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(10)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(11)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(12)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(13)  $R(T_3-T_1) = \frac{1}{2}MR^2 \cdot \frac{Q_1}{R} \longrightarrow T_2-T_1 = \frac{1}{2}MQ_2$ 
(14)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 
(15)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 
(15)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 
(16)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 
(17)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 
(18)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 
(19)  $R(T_3-T_1) = \frac{1}{2}MQ_2$ 

$$\therefore q = 0.309 \text{ m/s}^2$$

(c) 
$$T_1 = m_0 + \mu r m_1 g = 0.661 + 0.056 = 7.604N$$

$$T_2 = m_2 g d m_0 - \mu r m_2 g cosb - m_2 a = 20.4 - 18.3 - 1.854 = 9.246N$$

$$T_1 = 7.604N, T_2 = 9.246N$$



Hat: 
$$\frac{1}{2}mv^2 = mgh = mg \frac{S}{sin\theta}$$
 :  $S = \frac{v^2}{ag}$  sind  
Hete:  $\frac{1}{2}mv^2 + \frac{1}{2}Iw^2 = mgh^1 = mg \frac{S}{sin\theta}$   
 $I = \frac{1}{2}mv^2 + \frac{1}{2}\frac{1}{2} \cdot mk^2 \cdot \frac{v^2}{r^2} = \frac{4}{3}mv^2 = mg \frac{S}{sin\theta}$   
:  $S' = \frac{3v^2}{4g}$  sim0

- (a) %的 더 奶妈 ?Ch.
- (b) 22 simb
- (c) 響 和路E

#3

(a) 
$$I = 4 \cdot 3^2 + 2(-2)^2 + 3 \cdot (-4)^2 = 94 \text{kg} \cdot \text{m}^2$$

(d) 
$$4kg : \frac{1}{2}xay36 = 7aJ$$

seg :  $\frac{1}{2}xax66 = 16J$ 

Ex = 72+16+96 = 184J

seg :  $\frac{1}{2}xax64 = 96J$ 

e) (6)24 (d)21 3)42 2tc.