NO Reading Assignment

H.W Due Friday

Action Center Thursday

Wagner 145 5-7 p.m

Group Problem Thursday

office hours
10:30-11:30 today

$$m_1 = 10 kg$$

$$m_2 = 14 kg$$

$$m_2 = 14 kg$$

$$m_1 = 10 kg$$

$$m_2 = 14 kg$$

$$m_2 = 14 kg$$

$$m_2 = 14 kg$$

$$m_2 = 14 kg$$

$$m_3 = 10 kg$$

$$m_4 = 10 kg$$

$$m_5 = 10 kg$$

$$m_5 = 10 kg$$

$$m_6 = 10 kg$$

$$T_1 - M_1 q = M_1 a$$
 $-T_1 + M_2 q = M_2 a$
 $T_1 = M_1 a + M_2 q$ $T_1 = -M_2 a + M_2 q$

set equal

$$m_1 a + m_1 q = -m_2 a + m_2 q$$

$$a(m_1 + m_2) = q(m_2 - m_1)$$

$$a = q(m_2 - m_1)$$

$$m_1 + m_2$$

$$M_{2}=M_{1}$$
 $\alpha=0$
 $M_{2}>M_{1}$ $\alpha>0$
 $\alpha=(9.8 \text{ m/s}^{2}) \frac{14kg-10kg}{14kg+10kg}$
 $\alpha=1.6 \text{ m/s}^{2}$

M, = 50 kg M2 = 100 kg m2 VUK = 0.3 Determine à しい=1179 いこれえ -T1+422 = 42a FN-6=0 アルーショルラ 7,= M22 -Me T, = Ff = M, a set T, egual T, -MK FN = M.a. MIG TAK MIZ = M22 - M1 7, -MKM12=M, a $a = 9 \left(\frac{m_2 - u_{km_1}}{m_1 + m_2} \right)$ T, = M, a + MKM, 2 a= 9,84152 / 10049-(0,3×5045) $a = 5.55 \, \text{m/s}^2$

N exerted by the elevator floor on the person is Consider a person standing in an elevator that is moving upward at a constant velocity. The upward normal force

- A) larger than
- B) identical to
- C) smaller than

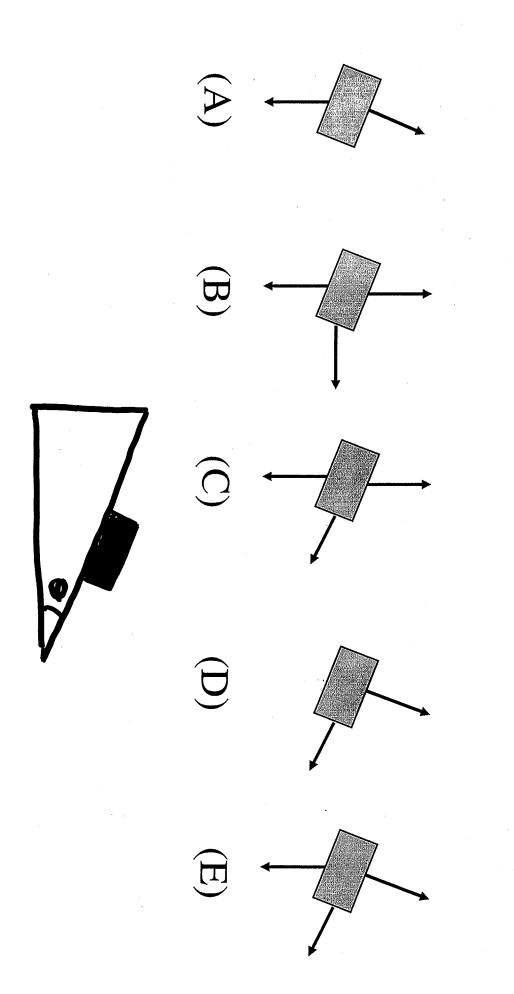
the downward weight W of the person

accelerating upward. The upward normal force N exerted by the elevator floor on the person is Consider a person standing in an elevator that is

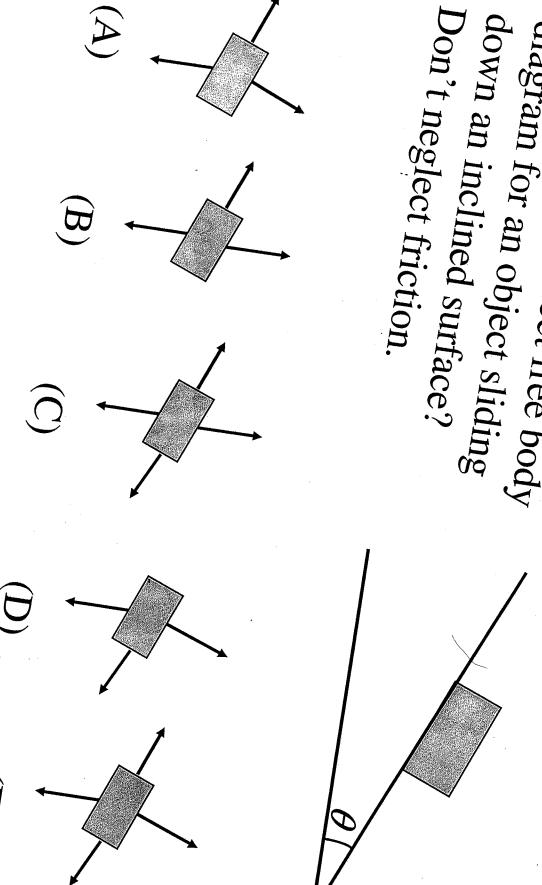
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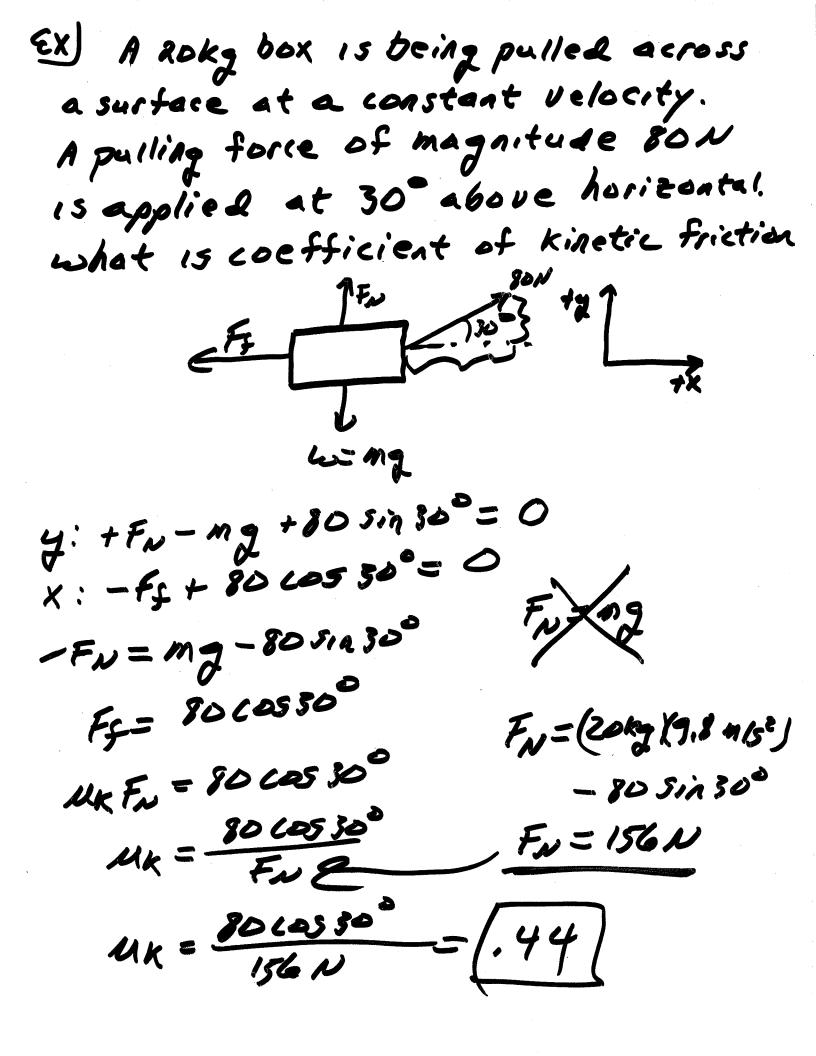
the downward weight W of the person

for an object sliding down a frictionless incline. Which of the following is the correct free body diagram



down an inclined surface? diagram for an object sliding Which is the correct free body





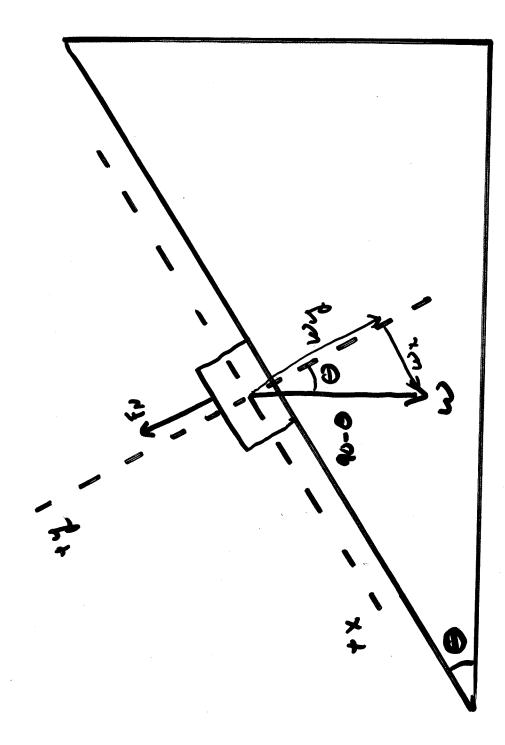
incline & plane no friction

wy: W 6050 Wx: 45110

y: ZFy= O FN - wess = 0
FN= mgcase

x: ZK = Ma

Masines Ma Masines Ma D= asin O



fee