

made up
#

$$\mu = .7$$

$$\sum \vec{F} = m\vec{a}$$

$$\sum \vec{F}_x = m\vec{a}_x$$

$$\sum \vec{F}_y = m\vec{a}_y$$

$$-F_f = m(-a)$$

$$F_N - mg = 0$$

$$\mu F_N = ma$$

$$F_N = mg$$

$$\mu g = a$$

$$.7(9.8) = a = 6.86 \text{ m/s}^2$$

$$v_f^2 = v_i^2 + 2ad$$

$$0^2 = (30^2) + 2(6.86)d$$

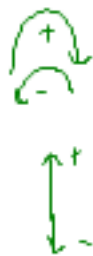
$$d =$$

$$\mu mg = ma$$

$$\mu g = a$$



8



$$\sum \vec{F} = m\vec{a}$$

$$\sum \vec{F}_x = m\vec{a}_x$$

$$-m_1g - F_F + m_3g = 0$$

$$m_1g + \nu FN = m_2g$$

$$\sum \vec{F}_y = m\vec{a}_y$$

$$F_N - m_3g = 0$$

$$F_N = m_3g$$