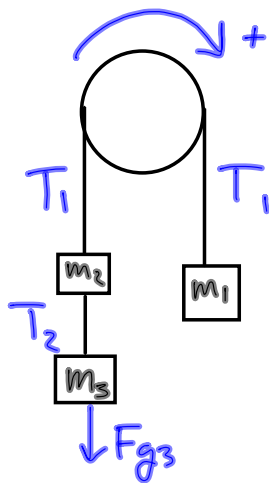
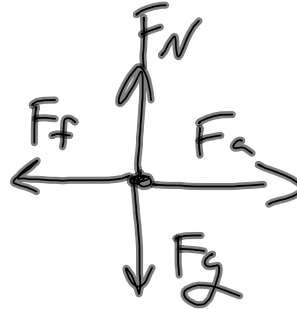


Constant $v = \text{No } a = \text{No net } F$



- 1) Freebody Diagram
- 2) Set up Newton's 2nd law Equations

$$F_g \neq g$$

$$g = \text{acceleration due to gravity} \\ = 9.8 \text{ m/s}^2 = 9.8 \text{ N/kg} = 10$$

$$F_g = \text{Force due to gravity}$$

$$F_g = mg$$

$$a = \frac{F}{m}$$

$$F = ma$$

$a = \frac{\sum F}{m} m_i$

m_1

$-T_1$

F_{g1}

$a = \frac{F_{g1} - T_1}{m_1}$

m_2

T_1

$-T_2$

$a = \frac{T_1 - T_2}{m_2}$

m_3

T_2

$-F_{g3}$

$a = \frac{T_2 - F_{g2}}{m_3}$

