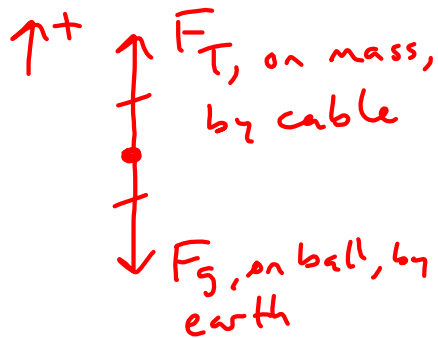
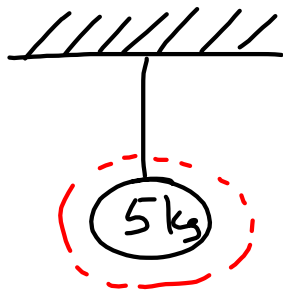


Worksheet 3

1)



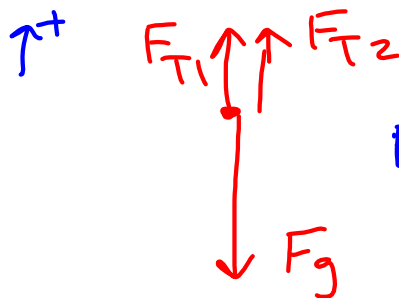
$$F_{net} = F_T - F_g = \emptyset$$

$$F_T = F_g$$

$$= m a_g$$

$$= (5 \text{ kg})(9.8 \text{ m/s}^2)$$

$$= 49 \text{ N}$$



$$F_{T1} + F_{T2} = 2F_T$$

$$F_{net} = 2F_T - F_g = \emptyset$$

$$F_T = \frac{1}{2} m a_g$$

$$= \frac{1}{2} (5 \text{ kg})(9.8 \text{ m/s}^2)$$

$$= 24.5 \text{ N}$$