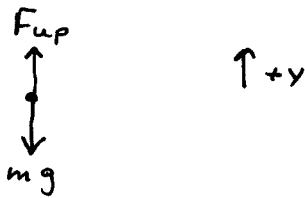


### Exercise 8-9

$$W = mg = (8.50 \text{ kg}) (9.80 \text{ m/s}^2) = 83.3 \text{ N}$$



$$\vec{v} = \text{const.} \quad \therefore \Sigma \vec{F} = 0.$$

$$\therefore \Sigma F_y = 0$$

$$\therefore F_{up} - mg = 0$$

$$\therefore F_{up} = mg = 83.3 \text{ N}$$