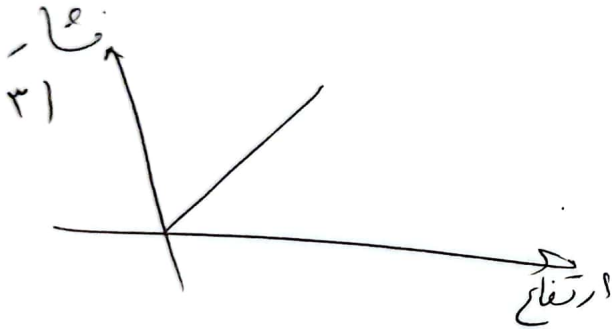


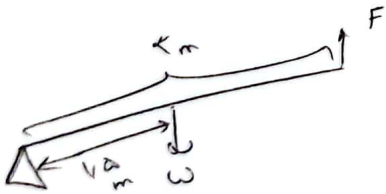
٢) $F = ma \Rightarrow m = \frac{F}{a}$

$$\frac{F_1}{a_1} = \frac{F_2}{a_2}$$

$$\Rightarrow \frac{10}{a} = \frac{12}{(a+2)} \Rightarrow 10a + 20 = 12a \Rightarrow 20 = 2a \Rightarrow a = 10 \frac{m}{s^2}$$



٤)



$$F \cdot d = W \cdot d$$

$$F \times 1 = 100 \times 1.8$$

$$\Rightarrow F = 180 \text{ N}$$

٥) $v = \frac{\Delta m}{\Delta t} \Rightarrow v = \frac{1 \times 10}{10} = 1 \frac{m}{s}$

٦) $v = \frac{\Delta m}{\Delta t} \Rightarrow v = \frac{1 \times 10}{10} = 1 \frac{m}{s}$

٧) $v = \frac{\Delta m}{\Delta t} = \frac{0}{10} = 0 \frac{m}{s}$