$$X$$
  $U$   $C$   $M/5^2$ 

$$M/S = M/S^2$$
 Notice there is no t

$$\Delta = a\Delta$$

$$\Delta \sqrt{a} = a\Delta \times$$

$$A \sqrt{a} A \times$$

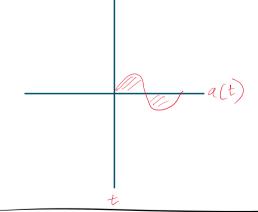
$$V_{f} - V_{i} = \alpha \left( \chi_{s} - \chi_{i} \right)$$

$$m^{2}/s^{2}$$

$$V_{f}^{2} - V_{i}^{2} = 2a(x_{f} - x_{i})$$
 and 2 to both sides  $m^{2}/s^{2}$ 

## Review Quiz

V(t) Where a(t) = sin (w·t)



equally avea on t an - Sibe, So 17 15 Net O, houever he don't know instal V (Vo), we cannot assume of BO so the answer is just Vo.

905/20n:

$$\chi(t) = 4.0 \, \text{m} - 2.0 \, \text{m/s} \cdot t$$

When does particle cross the origin Not a good question, because it never does

At which time does the garticle cross the congin when does y/x(t)=0?

$$x(t) = 0 = 4m - 2\frac{m}{5} \cdot t$$
 $t = 25$ 

What is speed when it crosses origin

$$V(t) = \frac{d \chi(t)}{dt} = -2m/s$$

What is displacement between +=3 & t=6?

$$\Delta x = \chi_f - \chi_{\bar{i}} = \chi(6) - \chi(3) = -8 - (-2) = -6m$$

Quiz 2

$$V = 5 m/5$$
  $t = 20 s$   $X = 6 m$ 

$$\chi = 6 n$$

$$\chi(t) = 5t + C$$

$$X(t) = 5t + C \qquad \chi(t) = 5m/st - 94m$$

$$\chi(20) = 6 = 5(20) + C$$

How long does Tar Lung fly?

$$\chi(t) = \chi_0 + V_0 t + \frac{1}{2} q t^2$$

$$-h = 6 + 0 - \frac{1}{2}g(6)^2$$

$$-h = 0 \cdot 0 - 29$$
  
 $-h = 180 \text{ m}$ 

$$\begin{cases} V \dot{c} = \\ a = 1 \\ V \dot{c} =$$

$$V_{i} = V \quad 0 + h_{i} \quad h_{i$$