

A:
$$V_{i}=0$$
 $A = 3$ metres $x = 3$
 $A = 0$
 $A = 0$

where you multiply dx2
because of dependent mother
t= \frac{1-11}{2}

A & B: want to find

$$d$$
 when $V_f = V_c$
 V_i, V_f, a, d
 $d = \frac{V_f - V_c}{2a} \times 1$ (DM)
 $t = \frac{V_f}{a}$
 $d = \frac{V_c + V_c}{2a} \times 1$
 $d = \frac{V_c}{a} \times 1$