

Qs on MP?

-volunteers to show work

Want to take a look at your EM FR?

HW Quiz @ 2:55 p.m.

14.24 $d = 8.9 \text{ m}$

$t = 1.1 \text{ s}$

$V_s = 343 \text{ m/s}$

$a = 9.81 \text{ m/s}^2$

$V_r = \frac{d}{t_r}$

$x = x_0 + v_0 t + \frac{1}{2} a t^2$



$v = \frac{d}{t} \Rightarrow t_s = \frac{d}{v}$

$t_+ - t_s = t_c$

$x_0 = 0$

$x = 8.9 \text{ m}$

$v_0 = ?$

$v = v_r$

$a = 9.81 \text{ m/s}^2$

$t = t_c$

Hamza
W. K. I.

↓ v
8.8 m

$$t = 1.2 \text{ s}$$

$$v_s = 343 \text{ m/s}$$

$$v = \frac{d}{t}$$

$$t_2 = \frac{d}{v}$$

$$t_f = 1.2 - 0.0256$$

$$t_2 = \frac{8.8}{343}$$

$$t_f = 1.1744$$

$$t_2 = 0.0256$$

$$x_1 = x_0 + v_0 t_f + \frac{1}{2} g t_f^2$$

$$v_0 = \frac{x_1 - \frac{1}{2} g t_f^2}{t_f}$$

$$t_f$$

$$v_0 = \frac{8.8 - \frac{1}{2} 9.81 \cdot 1.1744^2}{1.1744}$$

$$v_0 = 1.73 \text{ m/s}$$

Jan