

Math Quiz Spring 2024

You should be able to complete this quiz without additional resources. This quiz is intended to help students pinpoint mathematical deficiencies that will need to be addressed moving forward. All problems include variables that you will become familiar with throughout the semester. At this time, you shouldn't worry about the definitions of the variables, simply apply mathematical principles to solve. Include all work and box all final answers.

- 1) Solve for t : $x = x_0 + v_0 t + \frac{1}{2} a t^2$ for $a = 2 \frac{m}{s^2}$, $v_0 = -5 \frac{m}{s}$, $x = 0 m$, $x_0 = 6 m$

$$0 = 6 + (-5)t + \frac{1}{2}(2)(t^2)$$

$$0 = 6 - 5t + t^2$$

$$t^2 - 5t + 6 = 0$$

$\begin{matrix} A & B & C \\ (-6) & (-5) & (6) \end{matrix}$

$$\frac{1}{2} a t^2 + v_0 t + (x_0 - x) = 0$$

$$a t^2 + 2 v_0 t + 2 x_0 - 2 x = 0$$

$$t = \frac{-v_0 \pm \sqrt{v_0^2 - 2a(x_0 - x)}}{a}$$

$$t = \frac{-(-5) \pm \sqrt{(-5)^2 - 2(2)(6 - 0)}}{2}$$

$$= \frac{5 \pm \sqrt{25 - 24}}{2} = \frac{5 \pm 1}{2} = 3 \text{ or } 2$$

$$\boxed{3}$$

$$\frac{-v_0 \pm \sqrt{v_0^2 - 2a(x_0 - x)}}{2a}$$

$$0 = 6 + (-5 \cdot 3) + \frac{1}{2} \cdot 2 \cdot 3^2 = 0 \checkmark$$

- 2) Solve for x : $v^2 = v_0^2 + 2a(x - x_0)$

$$v^2 - v_0^2 = 2a(x - x_0)$$

$$\frac{v^2 - v_0^2}{2a} = x - x_0$$

$$\boxed{x = \frac{v^2 - v_0^2}{2a} + x_0}$$

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