

EXTRA KINEMATICS EQUATIONS PRACTICE

HINTS AND ANSWERS

Try the problems *before* you check out the hints and answers to make sure you really know how to do the problems.

1. A ball is dropped off a cliff and takes 5.8 seconds to hit the ground. How high is the cliff?

Use the purple equation. Since it is dropped from rest, it is in free fall. You will negative displacement because that's how far it fell in the negative direction.

$$\begin{aligned} v_i &= 0 \text{ m/s} & a &= -9.8 \text{ m/s}^2 & d &= v_i t + \frac{1}{2} a t^2 & d &= (0 \text{ m/s})(5.8 \text{ s}) + \frac{1}{2} (-9.8 \text{ m/s}^2)(5.8 \text{ s})^2 & d &= -164.8 \text{ m} \\ t &= 5.8 \text{ s} & d &= ? \end{aligned}$$

2. A car accelerates from rest to 34 m/s in just 12 seconds. What is its acceleration?

Use the orange equation.

$$\begin{aligned} v_f &= 34 \text{ m/s} & a &= \frac{v_f - v_i}{t} & a &= \frac{34 \text{ m/s} - 0 \text{ m/s}}{12 \text{ s}} = 2.83 \text{ m/s}^2 \\ a &= ? \end{aligned}$$

3. A rocket shoots up 123 meters.

- a. What is its initial velocity?

Use the dark green equation. If you know how high the rocket goes, and since its shot straight up we know that its velocity at the maximum height will be zero.

$$\begin{aligned} d &= 123 \text{ m} & a &= -9.8 \text{ m/s}^2 & v_f^2 &= v_i^2 + 2ad & (0 \text{ m/s})^2 &= v_i^2 + 2(-9.8 \text{ m/s}^2)(123 \text{ m}) & v_i &= 49 \text{ m/s} \\ v_f &= 0 \text{ m/s} & v_i &= ? \end{aligned}$$

- b. How long is it ascending? (you can use either)

Lots of options because you know now the initial velocity, any method is appropriate and all give the same answer.

$$\begin{aligned} d &= 123 \text{ m} & a &= \frac{v_f - v_i}{t} & d &= \left(\frac{v_f + v_i}{2} \right) t \\ v_f &= 0 \text{ m/s} & -9.8 \text{ m/s}^2 &= \frac{0 \text{ m/s} - 49 \text{ m/s}}{t} & 123 \text{ m} &= \left(\frac{0 \text{ m/s} + 49 \text{ m/s}}{2} \right) t \\ a &= -9.8 \text{ m/s}^2 & t &= 5 \text{ s} & t &= 5 \text{ s} \\ v_i &= 49 \text{ m/s} \\ t &= ? \end{aligned}$$

4. A racecar can accelerate at 8.9 m/s^2 ; if the car starts from 10 m/s , after 2.1 seconds how fast is it going?

Use the orange equation.

$$\begin{aligned} a &= 8.9 \text{ m/s}^2 & t &= 2.1 \text{ s} & a &= \frac{v_f - v_i}{t} & 8.9 \text{ m/s}^2 &= \frac{v_f - 10 \text{ m/s}}{2.1 \text{ s}} & v_f &= 28.7 \text{ m/s} \\ v_i &= 10 \text{ m/s} & v_f &= ? \end{aligned}$$

Kinetics Physics Lab Manual Answers

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