

note: I used $g = 10 \text{ m/s}^2$

11. Shauna dives from the 10 m board. Determine her speed at the end of 1 s.

$$V = at \quad a = 10 \text{ m/s}^2 \quad V = 10 \frac{\text{m}}{\text{s}^2} \times 1 \text{ s} = \boxed{10 \text{ m/s}}$$

12. Dean drives to a friend's house at an average speed of 35 mph. If it takes him 30 minutes to reach the friend's house, how far did he travel?

$$V = \frac{d}{t} \quad d = Vt = 35 \frac{\text{mi}}{\text{hr}} \times 0.5 \text{ hr} = \boxed{17.5 \text{ miles}}$$

13. Peter is doing an experiment from a cliff. If Peter walks off the cliff (initial speed = 0) and it takes Peter 8 s to hit the water below,

- a. What was Peter's speed just as he entered the water?

$$V = at = 10 \frac{\text{m}}{\text{s}^2} \times 8 \text{ s} = \boxed{80 \text{ m/s}}$$

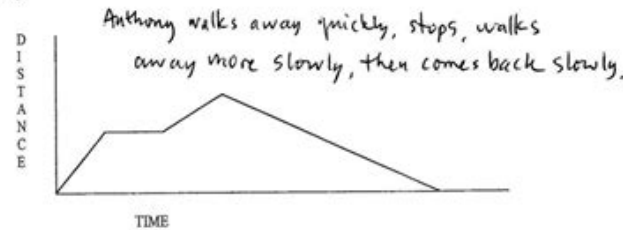
- b. What was the height of the cliff?

$$d = \frac{1}{2} at^2 = \frac{1}{2} 10 \frac{\text{m}}{\text{s}^2} \times (8 \text{ s})^2 = \boxed{320 \text{ m}}$$

- c. What was Peter's average speed?

$$V = \frac{d}{t} = \frac{320 \text{ m}}{8 \text{ s}} = \boxed{40 \frac{\text{m}}{\text{s}}}$$

14. Anthony travels a distance as described by the graph below. Describe how Anthony is moving.



15. Alexa throws a ball straight up at 60 m/s.

- a. How long is the ball in the air?

$$a = \frac{V}{t} \quad t = \frac{V}{a} = \frac{60 \text{ m/s}}{10 \text{ m/s}^2} = 6 \text{ seconds, } 6 \text{ seconds up, } 6 \text{ seconds down} = \boxed{12 \text{ s}}$$

- b. How high is the highest point?

$$d = \frac{1}{2} at^2 \quad t = 6 \text{ s} \quad d = \frac{1}{2} 10 \frac{\text{m}}{\text{s}^2} (6 \text{ s})^2 = \boxed{180 \text{ m}}$$

- c. Determine the speed and the direction at 8 seconds.

Uccc... I won't ask you this on the test!

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