

1. A car with a velocity of 22 m/s is accelerated uniformly at the rate of 1.6 m/s² for 6.8 s. What is its final velocity?

$$v_f = v_i + at = 22 \frac{m}{s} + (1.6 \frac{m}{s^2} \times 6.8 s) = \boxed{33 \frac{m}{s}}$$

2. Light travels in a straight line at a constant speed of 3.0×10^8 m/s for 4.1 years to reach the earth from the nearest star 3.9×10^{13} km away. What is its acceleration?

To be answered in Episode 303

3. A boy sliding down a hill accelerates at 1.40 m/s². If he started from rest, in what distance would he reach a velocity of 7.00 m/s?

$$v_f^2 = 2ad$$

$$d = \frac{v_f^2}{2a} = \frac{(7.00 \frac{m}{s})^2}{2 \times 1.40 \frac{m}{s^2}} = \boxed{17.5 m}$$

4. What is the acceleration of a plane that changes velocity from 75 m/s to 140 m/s in 15s? How far does a plane fly during that time?

$$v_f = v_i + at$$

$$a = \frac{v_f - v_i}{t} = \frac{140 \frac{m}{s} - 75 \frac{m}{s}}{15 s} = \boxed{4.3 \frac{m}{s^2}}$$

To solve for "d", you must use the value of "a" determined in part 1.

$$v_f^2 = v_i^2 + 2ad$$

$$d = \frac{v_f^2 - v_i^2}{2a} = \frac{(140 \frac{m}{s})^2 - (75 \frac{m}{s})^2}{2(4.3 \frac{m}{s^2})} = \boxed{1600 m}$$

Chapter 3 Velocity Acceleration Study Guide Answer Key

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Chapter 3 Velocity Acceleration Study Guide Answer Key:

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