

Holt Physics

Problem 2E**FINAL VELOCITY AFTER ANY DISPLACEMENT****PROBLEM**

In 1970, a rocket-powered car called *Blue Flame* achieved a maximum speed of 1.00×10^3 km/h (278 m/s). Suppose the magnitude of the car's constant acceleration is 5.56 m/s^2 . If the car is initially at rest, what is the distance traveled during its acceleration?

SOLUTION**1. DEFINE**

Given:

$$v_i = 0 \text{ m/s}$$

$$v_f = 278 \text{ m/s}$$

$$a = 5.56 \text{ m/s}^2$$

Unknown:

$$\Delta x = ?$$

2. PLAN

Choose an equation(s) or situation: Use the equation for the final velocity after any displacement.

$$v_f^2 = v_i^2 + 2a\Delta x$$

Rearrange the equation(s) to isolate the unknown(s):

$$\Delta x = \frac{v_f^2 - v_i^2}{2a}$$

3. CALCULATE

Substitute the values into the equation(s) and solve:

$$\Delta x = \frac{\left(278 \frac{\text{m}}{\text{s}}\right)^2 - \left(0 \frac{\text{m}}{\text{s}}\right)^2}{(2)\left(5.56 \frac{\text{m}}{\text{s}^2}\right)} = \boxed{6.95 \times 10^3 \text{ m}}$$

4. EVALUATE

Using the appropriate kinematic equation, the time of travel for *Blue Flame* is found to be 50.0 s. From this value for time the distance traveled during the acceleration is confirmed to be almost 7 km. Once the car reaches its maximum speed, it travels about 16.7 km/min.

ADDITIONAL PRACTICE

1. In 1976, Kitty Hambleton of the United States drove a rocket-engine car to a maximum speed of 965 km/h. Suppose Kitty started at rest and underwent a constant acceleration with a magnitude of 4.0 m/s^2 . What distance would she have had to travel in order to reach the maximum speed?
2. With a cruising speed of 2.30×10^3 km/h, the French supersonic passenger jet Concorde is the fastest commercial airplane. Suppose the landing speed of the Concorde is 20.0 percent of the cruising speed. If the plane accelerates at -5.80 m/s^2 , how far does it travel between the time it lands and the time it comes to a complete stop?

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JE Gale



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