

Problem 12-1

A truck traveling along a straight road at speed v_1 , increases its speed to v_2 in time t . If its acceleration is constant, determine the distance traveled.

Given:

$$v_1 = 20 \frac{\text{km}}{\text{hr}} \quad v_2 = 120 \frac{\text{km}}{\text{hr}} \quad t = 15 \text{ s}$$

Solution:

$$a = \frac{v_2 - v_1}{t} \quad a = 1.852 \frac{\text{m}}{\text{s}^2}$$

$$d = v_1 t + \frac{1}{2} a t^2 \quad d = 291.67 \text{ m}$$

Problem 12-2

A car starts from rest and reaches a speed v after traveling a distance d along a straight road. Determine its constant acceleration and the time of travel.

Given: $v = 80 \frac{\text{ft}}{\text{s}} \quad d = 500 \text{ ft}$

Solution:

$$v^2 = 2ad \quad a = \frac{v^2}{2d} \quad a = 6.4 \frac{\text{ft}}{\text{s}^2}$$

$$v = at \quad t = \frac{v}{a} \quad t = 12.5 \text{ s}$$

Problem 12-3

A baseball is thrown downward from a tower of height h with an initial speed v_0 . Determine the speed at which it hits the ground and the time of travel.

Given:

$$h = 50 \text{ ft} \quad g = 32.2 \frac{\text{ft}}{\text{s}^2} \quad v_0 = 18 \frac{\text{ft}}{\text{s}}$$

Solution:

$$v = \sqrt{v_0^2 + 2gh} \quad v = 59.5 \frac{\text{ft}}{\text{s}}$$

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Rachel S Tattersall



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