

$$y = V_i t + \frac{1}{2} g t^2$$

$$y = (0)(0.1) + \frac{1}{2} (9.81)(0.1)^2$$

$$y = 0.049 \text{ m} = 5 \text{ cm}$$

Ans. $y = 0.049 \text{ m} = 5 \text{ cm}$

8. A man driving his car at a constant speed of 45 mph suddenly sees a cow crossing the road 70 feet ahead. At what constant deceleration (in feet/seconds²) is required to avoid hitting the animal? Assume the reaction time of 0.5 second before the man applies the brake?



$$V_0 = 45 \frac{\text{mi}}{\text{hr}} \cdot \frac{5280 \text{ ft}}{1 \text{ mi}} \cdot \frac{1 \text{ hr}}{3600 \text{ s}}$$

$$V_0 = 66 \text{ ft/s}$$

$$S = V_0 t$$

$$S = 66(0.5)$$

$$S = 33 \text{ ft}$$

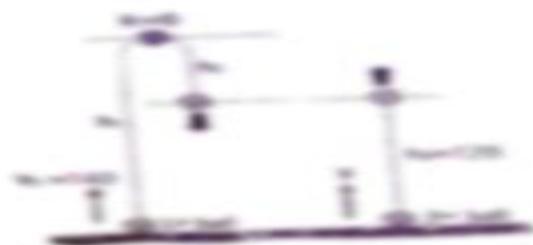
$$V^2 = V_1^2 - 2a(70 - S)$$

$$(0)^2 = (66)^2 - 2a(70 - 33)$$

$$a = 58.86 \text{ ft/s}^2$$

Ans. $a = 58.86 \text{ ft/s}^2$

9. A ball is thrown vertically into the air at 140 m/s. After 5 seconds, another ball is thrown vertically. What is the velocity must the second ball have to pass the first ball at 100 m above the ground?



$$h = V_0 t - \frac{1}{2} g t^2$$

$$100 = (140)(5) - \frac{1}{2} (9.81)(5)^2$$

$$100 = 705.25 \text{ m}$$

$$V_1^2 = V_0^2 - 2gh$$

$$V_1^2 = (140)^2 - 2(9.81)(705.25)$$

$$V_1 = 88.88 \text{ m/s}$$

$$V_1 = 88.88 \text{ m/s} - 100$$

$$V_1 = 878.88 \text{ m/s}$$

$$V_1 = V_0 - g t$$

$$878.88 = 140 - 9.81 t$$

$$t = 14.27 \text{ s}$$

$$h = V_1 t - \frac{1}{2} g t^2$$

$$100 = 878.88 t - \frac{1}{2} (9.81) t^2$$

$$t = 13.39 \text{ s}$$

$$t_{\text{total}} = t_1 + t_2 = 14.27 + 13.39 = 27.66 \text{ s}$$

Let t_2 = time needed by the 2nd ball to reach an elevation of 120 m
 $t_2 = 27.66 - 5 = 22.66 \text{ s}$

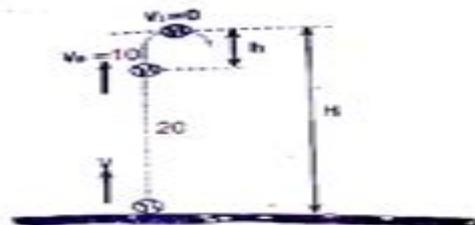
$$h = V t - \frac{1}{2} g t^2$$

$$120 = V(22.66) - \frac{1}{2} (9.81)(22.66)^2$$

$$V = 116.44 \text{ m/s}$$

Ans. $V = 116.44 \text{ m/s}$

10. A ball is thrown vertically upward from the ground and a student gazing out of the window sees it moving upward pass him at 10 m/s. The window is 20 m above the ground. How high does the ball go above the ground?



$$V_1^2 = V_0^2 - 2gh$$

$$0^2 = (10)^2 - 2(9.81)h$$

$$h = 5.10 \text{ m}$$

$$H = 20 + h$$

$$H = 25.10 \text{ m}$$

$$H = 25.10 \text{ m}$$

Ans. $H = 25.10 \text{ meters}$

11. A ball is dropped from the height of 70 meters above the ground. How long does it take to hit the ground?

$$h = \frac{1}{2} g t^2$$

$$70 = \frac{1}{2} (9.81) t^2$$

$$t = 3.76 \text{ s}$$

Ans. $t = 3.76 \text{ seconds}$



12. A ball is thrown vertically upward with an initial velocity of 40 m/s from the window of a tall building. The ball strikes the sidewalk at the ground level 2 seconds later. Determine the velocity with which the ball strikes the ground.



$$V_1 = V_0 - g t$$

$$V_1 = 40 - 9.81(2)$$

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M Walker



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