

Section 2.3: Projectile Motion

Tutorial 1 Practice, page 78

1. (a) Given: $\Delta d_y = -3.2 \text{ m}$, $a_y = -9.8 \text{ m/s}^2$,
 $v_{iy} = 0 \text{ m/s}$

Required: Δt

Analysis: $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

$$\Delta d_y = 0 + \frac{1}{2} a_y \Delta t^2$$

$$\Delta t^2 = \frac{2 \Delta d_y}{a_y}$$

$$\Delta t = \sqrt{\frac{2 \Delta d_y}{a_y}}$$

$$\begin{aligned} \text{Solution: } \Delta t &= \sqrt{\frac{2 \Delta d_y}{a_y}} \\ &= \sqrt{\frac{2(-3.2 \text{ m})}{-9.8 \text{ m/s}^2}} \\ &= 2.56 \text{ s} \\ \Delta t &= 2.6 \text{ s} \end{aligned}$$

Statement: The hockey puck is in flight for 2.6 s.

(b) Given: $\Delta t = 2.6 \text{ s}$, $a_y = 0 \text{ m/s}^2$, $v_{iy} = 0.0 \text{ m/s}$

Required: Δd_y

Analysis: $\Delta d_y = v_{iy} \Delta t$

Solution:

$$\begin{aligned} \Delta d_y &= v_{iy} \Delta t \\ &= \left(0.0 \frac{\text{m}}{\text{s}}\right)(2.56 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_y &= 0 \text{ m} \end{aligned}$$

Statement: The range of the hockey puck is 0 m.
 2. Since the velocity of the puck does not affect its vertical motion, it would still take 2.6 s to hit the ground. The range of the puck would be half because it is travelling at half the velocity horizontally. That means the range would be 1.1 m.

Tutorial 2 Practice, page 81

1. Given: $\Delta d_y = -3.2 \text{ m}$, $a_y = -9.8 \text{ m/s}^2$,

$v_{iy} = 7.3 \text{ m/s}$, $\theta = 25^\circ$

First determine the time of flight:

Required: Δt

Analysis: $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

Solution: $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

$$= v_{iy} (\sin \theta) \Delta t + \frac{1}{2} a_y \Delta t^2$$

$$-3.2 = (7.3)(\sin 25^\circ) \Delta t + \frac{1}{2}(-9.8) \Delta t^2$$

$$0 = 3.085 \Delta t - 4.9 \Delta t^2 + 3.2$$

$$\Delta t = \frac{-3.085 \pm \sqrt{3.085^2 - 4(-4.9)(3.2)}}{2(-4.9)}$$

$$= \frac{-3.085 \pm 18.52}{-9.8}$$

$$\Delta t = -0.974 \text{ s or } \Delta t = 2.204 \text{ s}$$

The answer must be the positive value.

Statement: The superball is in flight for 2.2 s.

Determine the range:

Required: Δd_x

Analysis: $\Delta d_x = v_{ix} \Delta t$

Solution:

$$\begin{aligned} \Delta d_x &= v_{ix} \Delta t \\ &= v_{iy} (\cos \theta) \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}}\right)(\cos 25^\circ)(2.204 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_x &= 1.5 \text{ m} \end{aligned}$$

Statement: The superball travels 1.5 m horizontally before landing.

Determine the final velocity:

Required: v_f

Analysis: $v_f = v_{fx} + v_{fy}$

Solution:

$$\begin{aligned} v_f &= v_{fx} + v_{fy} \\ &= \left(v_{iy} \cos \theta\right) + \left(v_{iy} + a_y \Delta t\right) \\ &= v_{iy} \cos \theta + v_{iy} \sin \theta + a_y \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}}\right)(\cos 25^\circ) (\text{right}) + \left(7.3 \frac{\text{m}}{\text{s}}\right)(\sin 25^\circ) (\text{up}) \\ &\quad + \left(-9.8 \frac{\text{m}}{\text{s}^2}\right)(2.204 \text{ s}) (\text{down}) \\ &= 6.646 \text{ m/s (right)} + 3.085 (\text{up}) + 21.66 \text{ m/s (down)} \\ &= 6.646 \text{ m/s (right)} + 3.085 (\text{down}) + 18.56 \text{ m/s (down)} \\ v_f &= 6.646 \text{ m/s (right)} + 18.52 \text{ m/s (down)} \end{aligned}$$

Use the Pythagorean theorem:

$$v_f^2 = v_{fx}^2 + v_{fy}^2$$

$$v_f = \sqrt{v_{fx}^2 + v_{fy}^2}$$

$$= \sqrt{(6.646 \text{ m/s})^2 + (18.52 \text{ m/s})^2} \text{ (two extra digits carried)}$$

$$v_f = 1.9 \times 10^1 \text{ m/s}$$

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