

Section 2.3: Projectile Motion

Tutorial 1 Practice, page 78

1. (a) Given: $\Delta d_y = -3.2$ m; $a_y = -9.8$ m/s²;

$v_{iy} = 0$ m/s

Required: Δt

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

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

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

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

$$\begin{aligned} \text{Solution: } \Delta t &= \sqrt{\frac{2 \Delta d_y}{a_y}} \\ &= \sqrt{\frac{2(-3.2 \text{ m})}{(-9.8 \frac{\text{m}}{\text{s}^2})}} \\ &= 2.556 \text{ s} \\ \Delta t &= 2.6 \text{ s} \end{aligned}$$

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

(b) Given: $\Delta t = 2.6$ s; $a_x = 0$ m/s²; $v_{ix} = 8.6$ m/s

Required: Δd_x

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

Solution:

$$\begin{aligned} \Delta d_x &= v_{ix} \Delta t \\ &= \left(8.6 \frac{\text{m}}{\text{s}} \right) (2.556 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_x &= 22 \text{ m} \end{aligned}$$

Statement: The range of the hockey puck is 22 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 11 m.

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1. Given: $\Delta d_y = -17$ m; $a_y = -9.8$ m/s²;

$v_i = 7.3$ 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: $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

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

$$-17 = (7.3)(\sin 25^\circ) \Delta t + \frac{1}{2} (-9.8) \Delta t^2$$

$$0 = 3.085 \Delta t - 4.9 \Delta t^2 + 17$$

$$\begin{aligned} \Delta t &= \frac{-3.085 \pm \sqrt{3.085^2 - 4(-4.9)(17)}}{2(-4.9)} \\ &= \frac{-3.085 \pm 18.51}{-9.8} \end{aligned}$$

$$\Delta t = -1.574 \text{ s or } \Delta t = 2.204 \text{ s}$$

The answer must be the positive value.

Statement: The superhero is in flight for 2.2 s.

Determine the range:

Required: Δd_x

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

Solution:

$$\begin{aligned} \Delta d_x &= v_{ix} \Delta t \\ &= v_i \cos \theta \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}} \right) (\cos 25^\circ) (2.204 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_x &= 15 \text{ m} \end{aligned}$$

Statement: The superhero travels 15 m horizontally before landing.

Determine the final velocity:

Required: $\vec{v}_f$

Analysis: $\vec{v}_f = \vec{v}_{ix} + \vec{v}_{iy}$

Solution:

$$\begin{aligned} \vec{v}_f &= \vec{v}_{ix} + \vec{v}_{iy} \\ &= (v_i \cos \theta) + (\vec{v}_{iy} + a_{iy} \Delta t) \\ &= v_i \cos \theta + v_i \sin \theta + a_y \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}} \right) (\cos 25^\circ) \text{ [right]} + \left(7.3 \frac{\text{m}}{\text{s}} \right) (\sin 25^\circ) \text{ [up]} \\ &\quad + \left(9.8 \frac{\text{m}}{\text{s}^2} \right) (2.204 \text{ s}) \text{ (two extra digits carried)} \\ &= 6.616 \text{ m/s [right]} + 3.085 \text{ [up]} + 21.60 \text{ m/s [down]} \\ &= 6.616 \text{ m/s [right]} - 3.085 \text{ [down]} + 21.60 \text{ m/s [down]} \\ \vec{v}_f &= 6.616 \text{ m/s [right]} + 18.52 \text{ m/s [down]} \end{aligned}$$

Use the Pythagorean theorem:

$$\begin{aligned} v_f^2 &= v_{ix}^2 + v_{iy}^2 \\ v_f &= \sqrt{v_{ix}^2 + v_{iy}^2} \\ &= \sqrt{(6.616 \text{ m/s})^2 + (18.52 \text{ m/s})^2} \text{ (two extra digits carried)} \\ v_f &= 2.0 \times 10 \text{ m/s} \end{aligned}$$

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