

## 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:  $\Delta t$

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

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

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

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

$$\Delta t = \sqrt{\frac{2(-3.2 \text{ m})}{-9.8 \text{ m/s}^2}}$$

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

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

(b) Given:  $\Delta t = 2.6 \text{ s}$ ,  $a_x = 0 \text{ m/s}^2$ ,  $v_{ix} = 8.6 \text{ m/s}$

Required:  $\Delta d_x$

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

Solution:

$$\begin{aligned} \Delta d_x &= v_{ix} \Delta t \\ &= \left( 8.6 \frac{\text{m}}{\text{s}} \right) (2.56 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_x &= 22 \text{ m} \end{aligned}$$

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.

### Tutorial 2 Practice, page 81

1. Given:  $\Delta d_y = -3.7 \text{ m}$ ,  $a_y = -9.8 \text{ m/s}^2$

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

First determine the time of flight:

Required:  $\Delta t$

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

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

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

$$-3.7 = (7.3)(\sin 25^\circ) \Delta t + \frac{1}{2} (-9.8) \Delta t^2$$

$$0 = 3.085 \Delta t - 4.9 \Delta t^2 + 3.7$$

$$\Delta t = \frac{-3.085 \pm \sqrt{3.085^2 - 4(-4.9)(3.7)}}{2(-4.9)}$$

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

$$\Delta t = -0.574 \text{ s (or } \Delta t = 2.204 \text{ s)}$$

The answer must be the positive value.

Statement: The supertanker is in flight for 2.2 s.

Determine the range:

Required:  $\Delta d_x$

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

Solution:

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

Statement: The supertanker travels 15 m

horizontally before landing.

Determine the final velocity:

Required:  $v_f$

Analysis:  $v_f = v_x + v_y$

Solution:

$$\begin{aligned} v_f &= v_x + v_y \\ &= (v_{iy} \cos \theta) + (v_{iy} - a_y \Delta t) \\ &= v_{iy} \cos \theta + v_{iy} \sin \theta - a_y \Delta t \\ &= \left( 7.3 \frac{\text{m}}{\text{s}} \right) (\cos 25^\circ) (\text{right}) + \left( 7.3 \frac{\text{m}}{\text{s}} \right) (\sin 25^\circ) (\text{up}) \\ &\quad - \left( 9.8 \frac{\text{m}}{\text{s}^2} (\text{down}) \right) (2.204 \text{ s}) \text{ (two extra digits carried)} \\ &= 6.636 \text{ m/s (right)} - 3.085 (\text{up}) - 21 \text{ m/s (down)} \\ &= 6.636 \text{ m/s (right)} - 3.085 (\text{down}) = 13 \text{ m/s (right)} \\ v_f &= 6.636 \text{ m/s (right)} = 13 \text{ m/s (right)} \end{aligned}$$

Use the Pythagorean theorem:

$$v_f^2 = v_x^2 + v_y^2$$

$$v_f = \sqrt{v_x^2 + v_y^2}$$

$$= \sqrt{(6.636 \text{ m/s})^2 + (3.085 \text{ m/s})^2} \text{ (two extra digits carried)}$$

$$v_f = 7.3 = 13 \text{ m/s}$$

# Nelson Physics Answers

**Keith Barnham**



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