

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.

Tutorial 2 Practice, page 81

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: $\vec{v}_f = \vec{v}_a + \vec{v}_b$

Solution:

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

Use the Pythagorean theorem:

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

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Review of Navy Investigation of U.S.S. Iowa Explosion United States. Congress. House. Committee on Armed Services. Subcommittee on Investigations, 1990

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jika kamu berkunjung ke kota solo jangan lupa untuk datang ke jalan liris no 1 dusun belukan kelurahan pajang surakarta kamu akan menemukan masjid laweyan yang menjadi bukti sejarah dari penyebaran islam di tanah jawa masjid laweyan dibangun sejak tahun 1546 oleh jaka tingkir dan see more

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pasar laweyan adalah pasar yang menjadi pusat kegiatan perdagangan pada jaman kerajaan pajang hingga kini pasar laweyan masih eksis see more

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sultan hadiwijaya atau lebih dikenal dengan nama jaka tingkir adalah pendiri sekaligus raja dari kerajaan pajang jaka tingkir meninggal dunia di tahun 1582 dan dimakamkan di kampung halaman sang ibunda sayangnya see more

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kesultanan pajang atau kerajaan pajang aksara jawa ꦑꦗꦁ ꦏꦼꦱꦸꦠꦤꦤ꧀ꦥꦗꦁ ꦏꦼꦗꦫꦺꦤ꧀ꦥꦗꦁ adalah sebuah kesultanan yang berpusat di jawa tengah sebagai kelanjutan kesultanan demak kompleks keratonnya pada masa ini tinggal tersisa berupa batas batas pondasinya saja yang berada di perbatasan kelurahan pajang kota surakarta dan desa makam haji kartasura sukoharjo

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