

Particle Motion in Two Dimensions Model Worksheet 4: Projectile Motion Problems

1. A metal sphere is launched with an initial velocity of 1.5 m/s as it leaves the ramp. The end of the ramp is 1.20 m above the floor. Calculate the range of the sphere. (*Range* is the horizontal displacement of the projectile.)



$$v_x = \cos 20^\circ (1.5 \frac{m}{s}) = 1.4 \frac{m}{s}$$

$$v_{yi} = \sin 20^\circ (1.5 \frac{m}{s}) = 0.51 \frac{m}{s}$$

$$\Delta y = -1.2 \text{ m}$$

$$v_{yi} = 0.51 \frac{m}{s}$$

$$a = g = -10 \frac{m}{s^2}$$

$$v_x = 1.4 \frac{m}{s}$$

$$\Delta t = ?$$

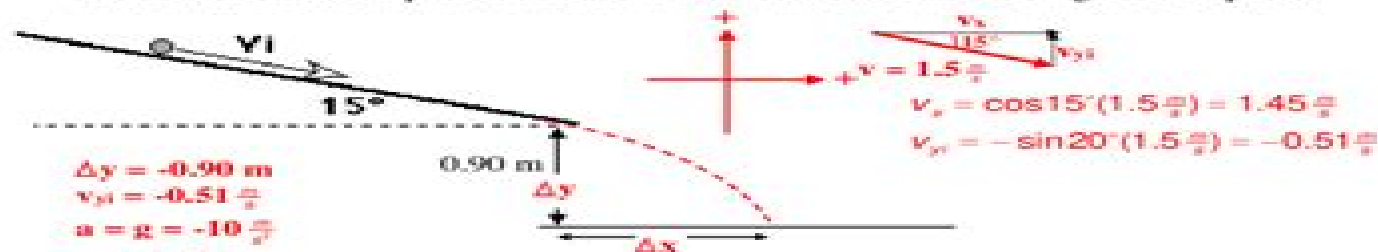
$$\Delta x = ?$$

$$\Delta y = v_{yi}t + \frac{1}{2}at^2 \Rightarrow -1.2\text{m} = (0.51 \frac{m}{s})t + \frac{1}{2}(-10 \frac{m}{s^2})t^2$$

$$(-5 \frac{m}{s^2})t^2 + (0.51 \frac{m}{s})t + 1.2\text{m} = 0 \text{ (use solver or quadratic)} \quad t = 0.54\text{s}$$

$$\Delta x = v_x \Delta t \Rightarrow \Delta x = 1.4 \frac{m}{s} (0.54\text{s}) = 0.76\text{m}$$

2. Now the ramp is tilted downwards and the sphere leaves the ramp at 1.5 m/s as shown below. The bottom of the ramp is 0.90 m above the floor. Calculate the range of the sphere.



$$\Delta y = -0.90 \text{ m}$$

$$v_{yi} = -0.51 \frac{m}{s}$$

$$a = g = -10 \frac{m}{s^2}$$

$$v_x = 1.45 \frac{m}{s}$$

$$\Delta t = ?$$

$$\Delta x = ?$$



$$v_x = \cos 15^\circ (1.5 \frac{m}{s}) = 1.45 \frac{m}{s}$$

$$v_{yi} = -\sin 15^\circ (1.5 \frac{m}{s}) = -0.51 \frac{m}{s}$$

$$\Delta y = v_{yi}t + \frac{1}{2}at^2 \Rightarrow -0.90\text{m} = (-0.51 \frac{m}{s})t + \frac{1}{2}(-10 \frac{m}{s^2})t^2$$

$$(-5 \frac{m}{s^2})t^2 + (-0.51 \frac{m}{s})t + 0.90\text{m} = 0 \text{ (use solver or quadratic)} \quad t = 0.37\text{s}$$

$$\Delta x = v_x \Delta t \Rightarrow \Delta x = 1.45 \frac{m}{s} (0.37\text{s}) = 0.54\text{m}$$

Answer Key Physics Study Guide Projectile Motion

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let $y = \cos x$ then $\cos^2 x \cos x = 2\cos^2 x \cos x - 1 = 0$
 $2y^2 - y - 1 = 0$
 $y = \frac{1 \pm \sqrt{1 + 8}}{4} = \frac{1 \pm 3}{4}$
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