

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.)



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

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

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

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

$$\Delta t = ?$$

$$\Delta x = ?$$

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

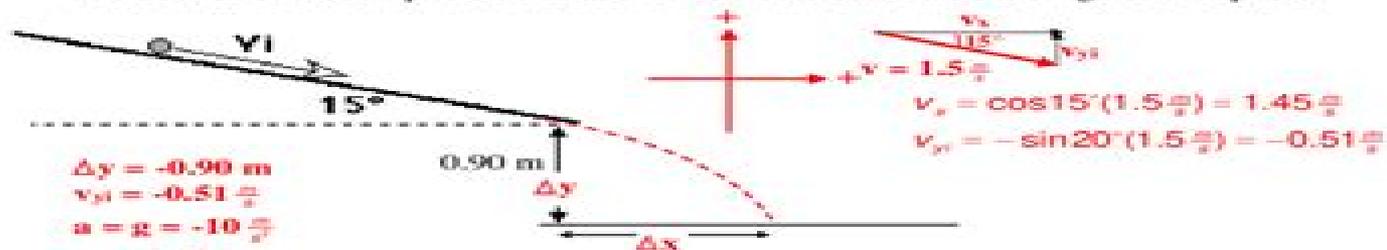
$$v_{yi} = \sin 20^\circ (1.5 \frac{\text{m}}{\text{s}}) = 0.51 \frac{\text{m}}{\text{s}}$$

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

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

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

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.



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

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

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

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

$$\Delta t = ?$$

$$\Delta x = ?$$

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

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

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

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

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

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