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1. An object is launched horizontally from a cliff. The cliff is 80m high and the object has an initial velocity of 50m/s. Find:

A. The initial x velocity

$$v_{xi} = 50 \text{ m/s}$$

B. The initial y velocity

$$v_{yi} = 0$$

C. The final x velocity

$$v_{fx} = 50 \text{ m/s}$$

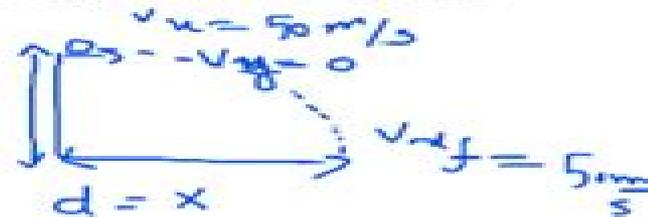
D. The final y velocity

$$v_{fy} = 0$$

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

$$v_{fy}^2 = v_{iy}^2 + 2ad$$

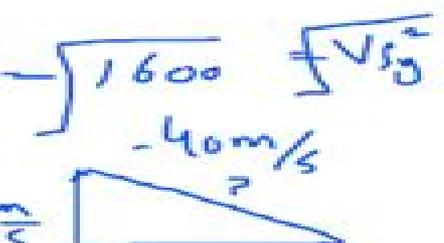
$$v_{fy}^2 = 0 + 2(10)(-80)$$



E. The final resultant velocity

$$c^2 = a^2 + b^2$$

$$\sqrt{c^2} = \sqrt{50^2 + (-40 \text{ m/s})^2} = \boxed{64 \frac{\text{m}}{\text{s}} = V}$$



F. The angle at which the projectile strikes the ground

$$\tan \theta = \frac{v_y}{v_x} \Rightarrow \theta = \tan^{-1} \frac{v_y}{v_x} = \tan^{-1} \frac{40}{50} = 38.65^\circ$$

G. How far from the base of the cliff the projectile lands

$$v_x = \frac{d}{t} = d = v_x t \quad t = \sqrt{\frac{2 \cdot 80}{10}} = \sqrt{16} = 4 \text{ sec}$$

$$d = 50 \times 4 \text{ sec} = 200 \text{ m}$$



2. A projectile is launched at a velocity of 100m/s at a 30 degree angle. Find:

A. The initial x velocity

$$v_{ix} = v \cos \theta$$

$$= 100 \cos 30 = 86.6 \frac{\text{m}}{\text{s}}$$



B. The initial y velocity

$$\sin \theta = \frac{p}{h} = \frac{v_y}{v}$$

$$v_y = v \sin \theta$$

$$100 \sin 30 = 50 \text{ m/s}$$

$$\cos \theta = \frac{\text{Base}}{\text{hyp}}$$

$$\cos 30 = \frac{v_x}{v} = v_x = v \cos \theta$$

$$s = v_i t + \frac{1}{2} a t^2$$

$$d = 0 + \frac{1}{2} a t^2$$

$$\sqrt{\frac{2d}{a}} = \sqrt{\frac{2v}{a}}$$

# 2d Kinematics Problems With Solutions

**Yan Bai**



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