

Kinematics

1 D Kinematics

x or y direction

$$v = v_0 + at$$

$$x - x_0 = v_0 t + \frac{1}{2} at^2$$

$$v^2 = v_0^2 + 2a(x - x_0)$$

Vertical acceleration for projectile is always -9.8 m/s^2 (even on the way up)

At peak height $v=0$
displacement is positive if ends up higher or to right

If starts from rest or dropped $v_0=0$

displacement is negative if ends up lower or to left

Even with negative acceleration you can be speeding up (if velocity and acceleration have same sign)

2 D Kinematics

y direction

$$v_y = (v_0 \sin \theta) + (-9.8)t$$

$$y - y_0 = (v_0 \sin \theta) t + \frac{1}{2} (-9.8) t^2$$

$$v_y^2 = (v_0 \sin \theta)^2 + 2(-9.8)(y - y_0)$$

x direction

$$d = (v_0 \cos \theta) t$$

vertical component v_y decreases by 9.8 m/s every second

at peak height $v_y = 0$

Range formula (can only if $y_f = y_0 = 0$)

$$R = \frac{v_0^2 \sin(2\theta)}{g}$$

horizontal component is constant v_x

$$v_{0x} = v_0 \cos \theta$$

$$v_{0y} = v_0 \sin \theta$$

Graphing motion

(Note: the graphs below do not represent the same moving object)

For position vs. time

- Slope is velocity
- Steep slope means moving fast
- Curvature is acceleration



For velocity vs. time

- Slope is acceleration
- Going towards $v=0$ axis means slowing
- Horiz. line means constant speed

Note: Area under v vs. t gives you displacement



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Arshad Iqbal



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