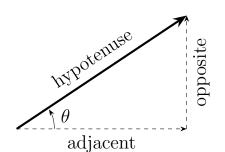
Projectile Motion Equations

$$\vec{v} = \vec{v}_0 + \vec{a}t$$
"Old Faithful"

$$\vec{x} = \vec{x}_0 + \vec{v}_0 t + \frac{1}{2} \vec{a} t^2$$
"The Big Chalupa"

$$\vec{v}^2 = \vec{v}_0^2 + 2\vec{a} \cdot (\vec{x} - \vec{x}_0)$$
"Ain't Got No Time"



$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

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

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

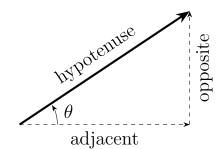
$$R = \frac{v_0^2 \sin{(2\theta)}}{g}$$

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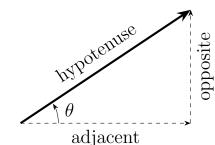
Projectile Motion Equations

$$ec{v} = ec{v}_0 + ec{a}t$$

"Old Faithful"

$$\vec{x} = \vec{x}_0 + \vec{v}_0 t + \frac{1}{2} \vec{a} t^2$$
"The Big Chalupa"

$$ec{v}^2 = ec{v}_0^2 + 2ec{a}\cdot(ec{x} - ec{x}_0)$$
"Ain't Got No Time"



$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\sin \theta = \frac{\text{opp}}{\text{hyp}} \qquad \cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\mathrm{opp}}{\mathrm{adj}}$$

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