

Projectile Motion Equations

$$\vec{v} = \vec{v}_0 + \vec{a}t$$

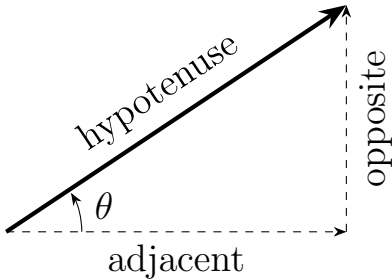
*“Old Faithful”*

$$\vec{x} = \vec{x}_0 + \vec{v}_0t + \frac{1}{2}\vec{a}t^2$$

*“The Big Chalupa”*

$$\vec{v}^2 = \vec{v}_0^2 + 2\vec{a} \cdot (\vec{x} - \vec{x}_0)$$

*“Ain’t Got No Time”*



$$\sin \theta = \frac{\text{opp}}{\text{hyp}} \qquad \cos \theta = \frac{\text{adj}}{\text{hyp}} \qquad \tan \theta = \frac{\text{opp}}{\text{adj}}$$
$$R = \frac{v_0^2 \sin (2\theta)}{g}$$

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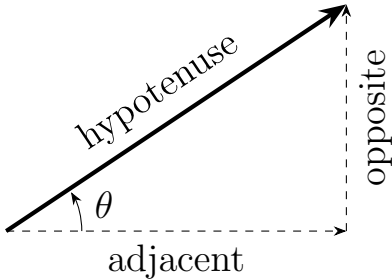
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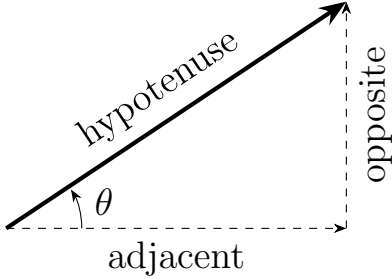
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