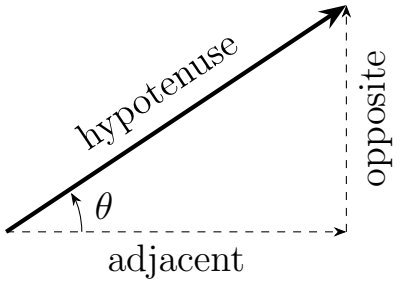
$\vec{v} = \vec{v}_0 + \vec{a}t$ *"Old Faithful"*

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

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



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

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

$$\vec{v}_{AC} = \vec{v}_{AB} + \vec{v}_{BC} \qquad \vec{v}_{AB} = -\vec{v}_{BA}$$

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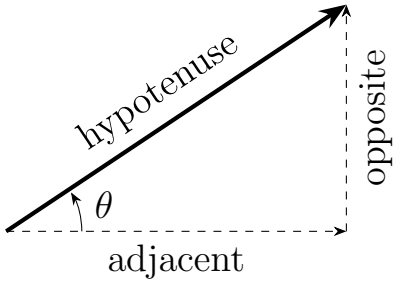

$$\sin\theta = \frac{\text{opp}}{\text{hyp}} \qquad \cos\theta = \frac{\text{adj}}{\text{hyp}} \qquad \tan\theta = \frac{\text{opp}}{\text{adj}}$$

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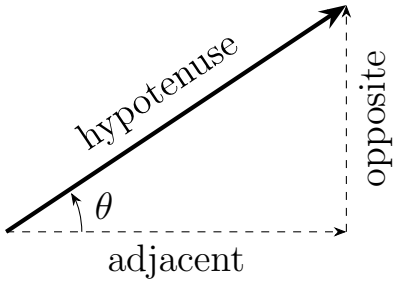

$$\sin\theta = \frac{\text{opp}}{\text{hyp}} \qquad \cos\theta = \frac{\text{adj}}{\text{hyp}} \qquad \tan\theta = \frac{\text{opp}}{\text{adj}}$$

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