Trigonometry Reference Sheet

Identities

Remembering the Value Table

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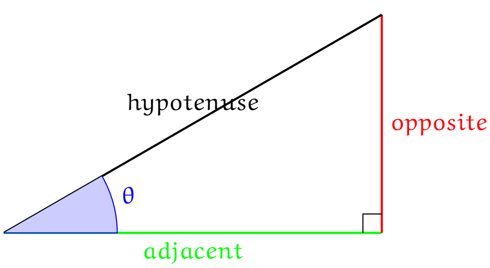
1 The Real Equations

The only real equations of the six you are used to seeing are the ones you need to worry about, they are sin and cos.



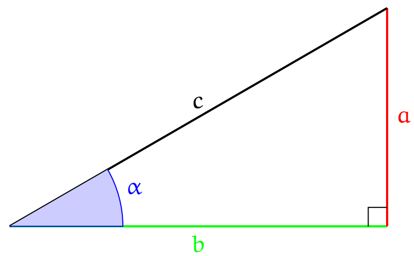
$$\sin\theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos\theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

2 The Other Basic Equations

These are all simply short hand for the above sin and cos

$$\tan\theta = \frac{\text{opposite}}{\text{adjacent}} \quad \cot\theta = \frac{\text{adjacent}}{\text{opposite}}$$
$$\sec\theta = \frac{\text{hypotenuse}}{\text{adjacent}} \quad \csc\theta = \frac{\text{hypotenuse}}{\text{opposite}}$$

3 Trigonometry



$$\sin\alpha = \frac{a}{c} \quad \cos\alpha = \frac{b}{c}$$
$$\tan\alpha = \frac{a}{b} \quad \cot\alpha = \frac{b}{a}$$

4 Algebra

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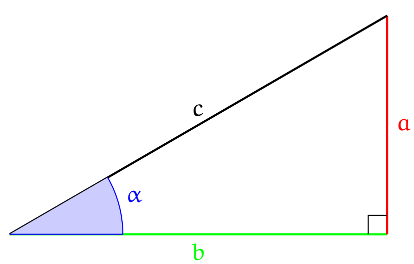
5 Trigonometry



$$\sin\alpha = \frac{a}{c} \quad \cos\alpha = \frac{b}{c}$$
$$\tan\alpha = \frac{a}{b} \quad \cot\alpha = \frac{b}{a}$$

6 The End

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