

Trigonometry

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1 Background Info

This document is aimed to give an introduction to trigonometry.

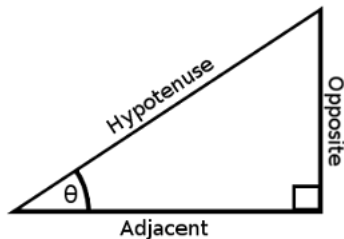
1.1 Angles

An angle, denoted θ or β , is how we measure the distance between two lines or planes.
Sin, Cosine? Tangent?

1.2 How Do We Measure Angles?

1.3 Some Old Hippie Caught Another Hippie Tripping On Acid

Didn't expect that now did you? Now that you read that I'm sure you'll never forget what SOA
CAH TOA is how we remember our trigonometric functions.



1.4 Useful Theorems

Theorem 1. $\sin(\theta) = \frac{\text{opposite}}{\text{hypotenuse}}$

Theorem 2. $\cos(\theta) = \frac{\text{adjacent}}{\text{hypotenuse}}$

Theorem 3. $\tan(\theta) = \frac{\text{opposite}}{\text{adjacent}}$

Theorem 4. $\csc(\theta) = \frac{\text{hypotenuse}}{\text{opponent}}$

Theorem 5. $\sec(\theta) = \frac{\text{hypotenuse}}{\text{adjacent}}$

Theorem 6. $\cot(\theta) = \frac{\text{adjacent}}{\text{opposite}}$