Right angled triangles ratios

sine
$$\theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

short form

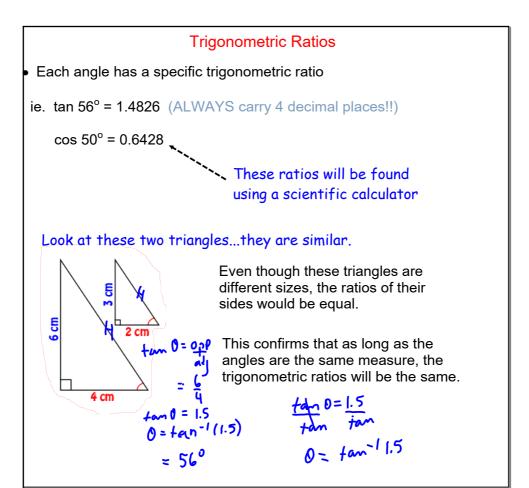
cosine
$$\theta = \underline{\text{adjacent}}$$

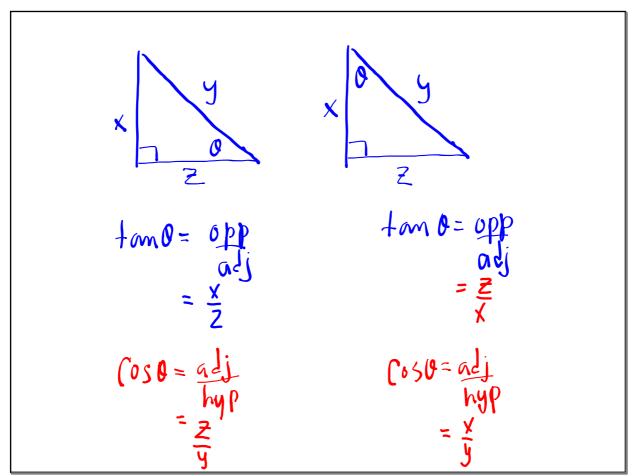
hypotenuse

tangent
$$\theta = \frac{\text{opposite}}{\text{adjacent}}$$

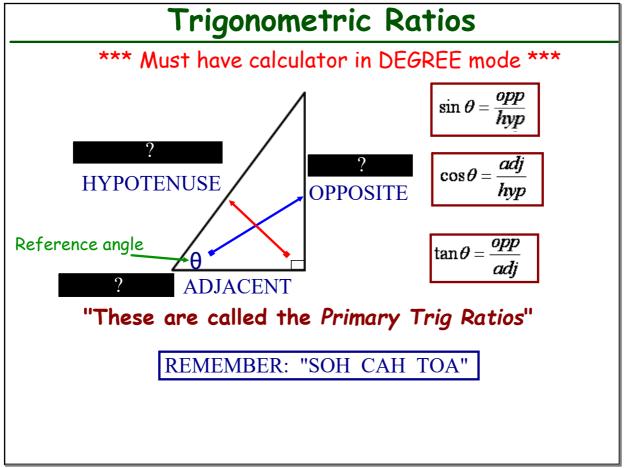
acronym..... SOH CAH TOA

Apr 27-7:51 AM





Apr 27-8:46 AM

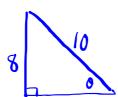


Examples

2.
$$\sin \theta = 0.5$$

 $\theta = \sin^{-1}(0.5)$
 $= 30^{\circ}$

3.



Apr 27-8:57 AM

Homework...

$$\frac{4}{15} = \frac{1.5}{15}$$

$$\frac{4}{15} = \frac{416}{15}$$

$$\frac{4}{15} = \frac{24}{15}$$

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$$\frac{4}{15} = \frac{416}{15}$$