Curriculum Outcome

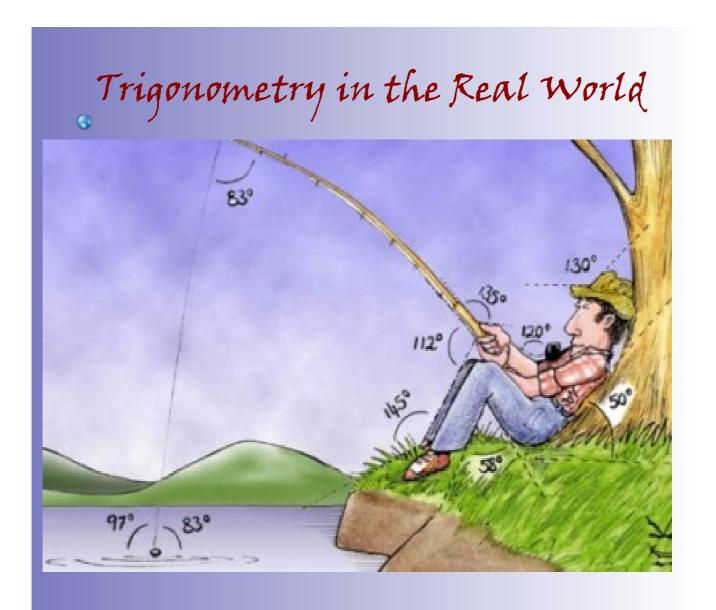
A1 Solve problems that require the manipulation and application of formulas related to: perimeter, area, volume, capacity, the Pythagorean theorem, primary trigonometric ratios, income. currency exchange, interest and finance charges.

G2 Demonstrate an understanding of the Pythagorean theorem by: identifying situations that involve right triangles, verifying the formula, applying the formula, solving problems.

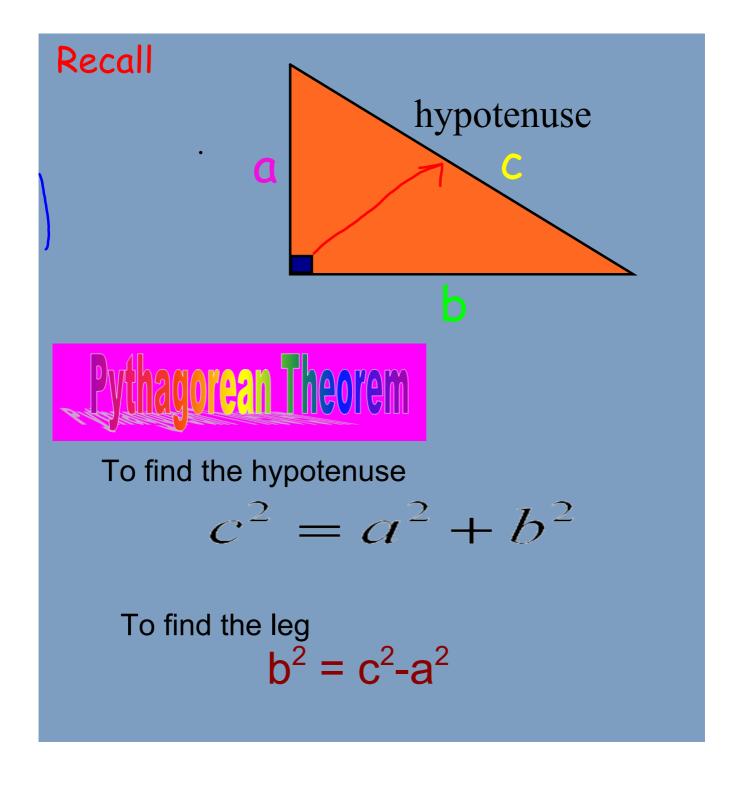
G3 Demonstrate an understanding of primary trigonometric ratios (sine, cosine, tangent) by: applying similarity to right triangles, generalizing patterns from similar right triangles, applying the primary trigonometric ratios, and solving problems.

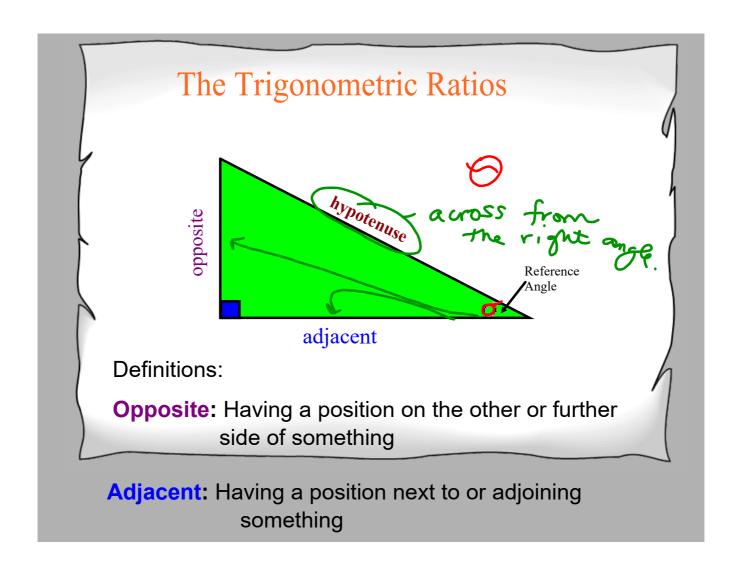
Student Friendly:

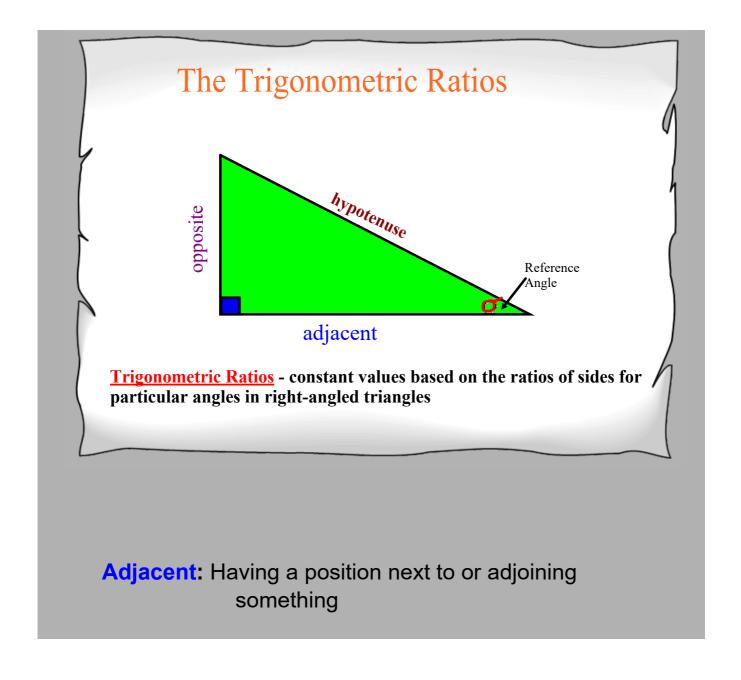


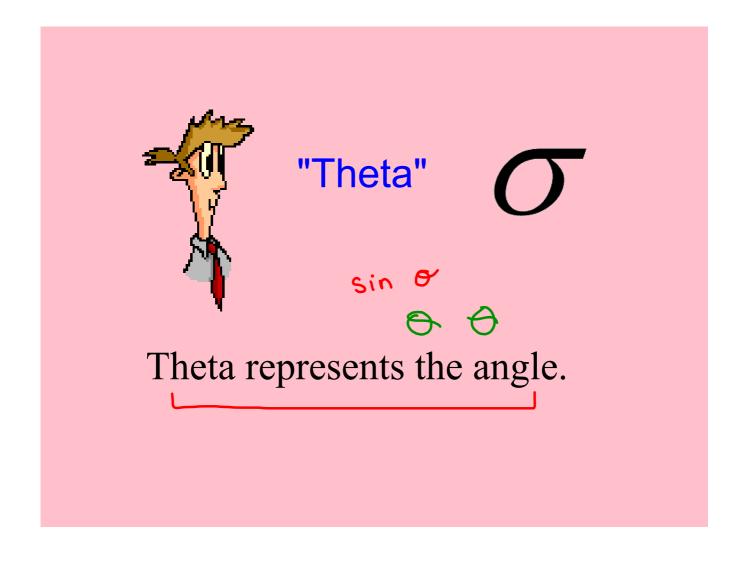


There are many examples of and uses for trigonometry for astronomy to carpentry and even sports







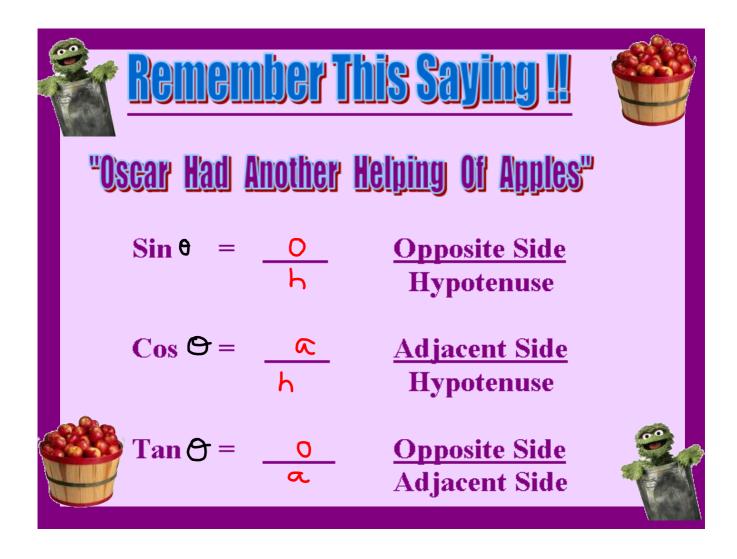


Primary Ratios of Trigonometry

Sin⊖ = Opposite Side = ⊖ Hypotenuse

 $\frac{\text{Cosine}}{\text{Hypotenuse}} = \frac{\text{Adjacent Side}}{\text{Hypotenuse}} = \frac{\alpha}{h}$

 $\frac{\text{Tangent}}{\text{Adjacent Side}} \quad \frac{\text{Opposite Side}}{\text{Adjacent Side}} = \frac{\circ}{\circ}$

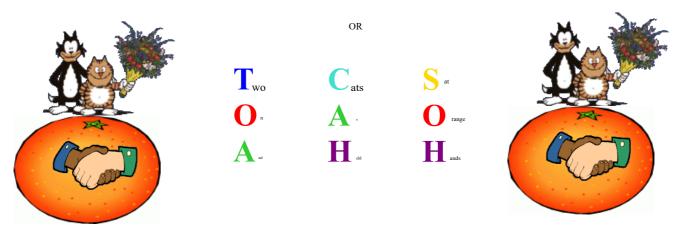


Remembering the Primary Ratios...

SOH CAH TOA

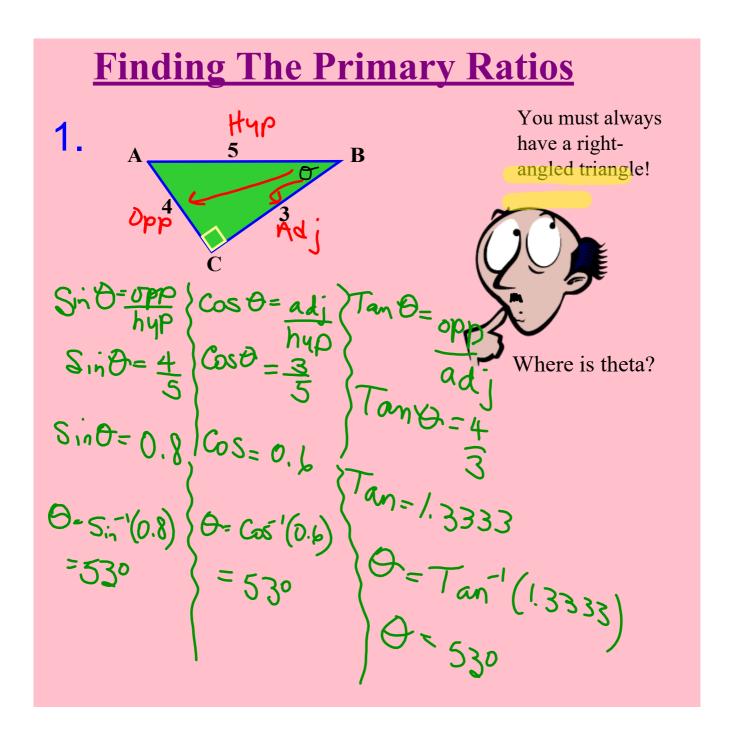
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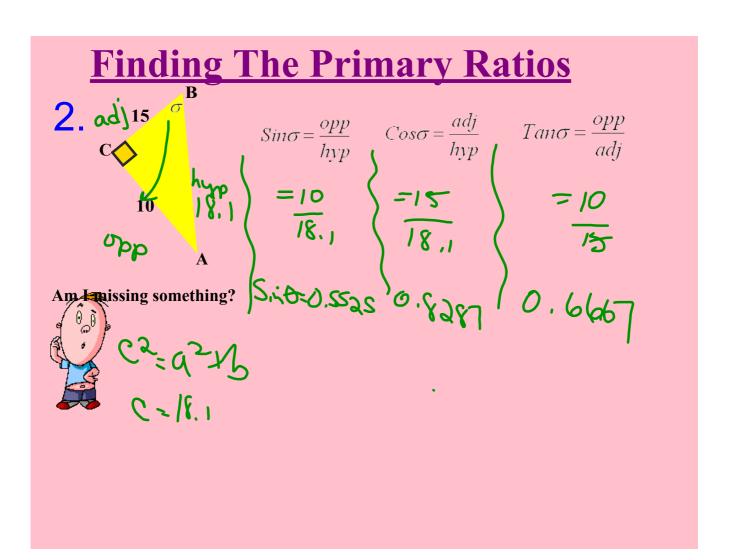
Some Out-Houses Can Actually Have Totally Odorless Aromas.



Two Cats Sat On An Orange And Held Hands

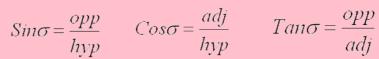






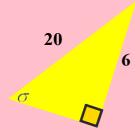
Finding The Primary Ratios





$$Cos\sigma = \frac{adj}{hvp}$$

$$Tan\sigma = \frac{opp}{adj}$$



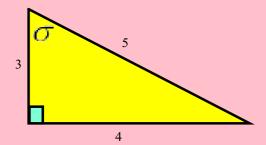
Find the missing side first...

Use the sides to find the ratios...(then decimal)

use the inverse to find the angle

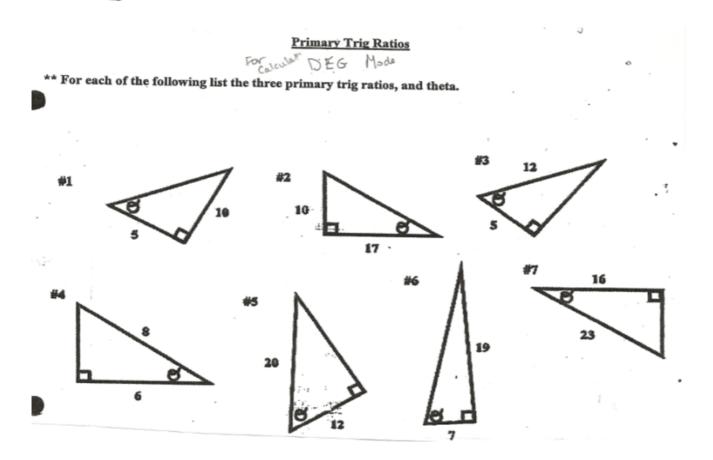
Example:

State the 3 primary trig ratios for the triangle for the given reference angle



Classwork/Homework

worksheet 1 Trig Ratios : Label hyp, opp, adj



TrigRatio LAbel wS 1.docx