The Right Triangle Trigonometric Ratios – Although we won't prove this fact until a future geometry course, all right triangles that have a common acute angle are similar. Thus, the ratios of their corresponding sides are equal. A very long time ago, these ratios were given names. These trigonometric ratios (trig ratios) will be introduced through the following exercises, each of which refer to the diagram below.



In a right triangle:

tangent of an angle
$$=$$
 $\frac{\text{leg opposite of the angle}}{\text{leg adjacent to the angle}}$

Exercise #3:
$$\tan A = 3/4$$
 $\tan C = 4/3$

sine of an angle
$$=$$
 $\frac{\text{leg opposite of the angle}}{\text{hypotenuse}}$

Exercise #4:
$$\sin A = 3/5$$
 $\sin C = 4/5$

cosine of an angle
$$=$$
 $\frac{\text{leg adjacent to the angle}}{\text{hypotenuse}}$

Exercise #5:
$$\cos A = 4/5$$
 $\cos C = 3/5$

A Helpful Mnemonic For Remembering the Ratios:

SOH-CAH-TOA

Sine is Opposite over Hypotenuse – Cosine is Adjacent over Hypotenuse – Tangent is Opposite over Adjacent

Exercise #3: Find each of the following ratios for the right triangle shown below.

(a)
$$\sin A = \frac{12/13}{}$$

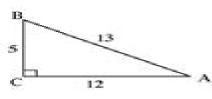
(b)
$$\tan B = 12/5$$

(c)
$$\cos A = 12/13$$

(d)
$$\tan A = 5/12$$

(c)
$$\cos B = 5/13$$

(f)
$$\sin B = 12/13$$



Algebra 1 Unit 8 Right Triangle Trigonometry Answers

Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki

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