

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:

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

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

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

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

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

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) $\sin A = 12/13$

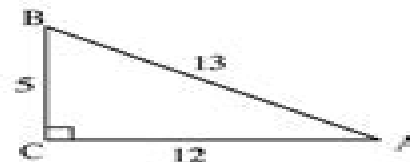
(b) $\tan B = 12/5$

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

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

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

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



Algebra Unit 8 Right Triangle Trigonometry L7 Answers

Alfred G. Brown



Algebra Unit 8 Right Triangle Trigonometry L7 Answers:

Basic Algebra and Right Triangle Trigonometry Alfred G. Brown, 1978

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