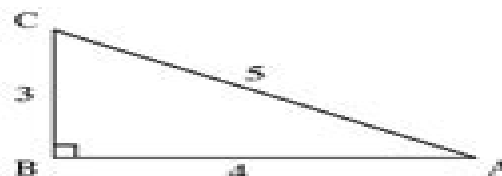


The Right Triangle Trigonometric Ratios – Although we won't prove this fact until a future geometry course, all right triangles that have a common acute angle are similar. Thus, the ratios of their corresponding sides are equal. A very long time ago, these ratios were given names. These trigonometric 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 **O**pposite over **H**ypotenuse – Cosine is **A**djacent over **H**ypotenuse – Tangent is **O**pposite over **A**djacent

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

(a) $\sin A = 12/13$

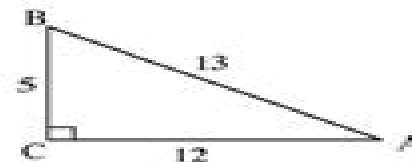
(b) $\tan B = 12/5$

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

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

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

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



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R Barnett



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Algebra and Trigonometry Marvin A. Bittinger, Judith A. Beecher, David J. Ellenbogen, Judith A. Penna, 2006 With a visual graphical approach that emphasizes connections among concepts this text helps students make the most of their study time The authors show how different mathematical ideas are tied together through their zeros solutions and x intercepts theme side by side algebraic and graphical solutions calculator screens and examples and exercises By continually reinforcing the connections among various mathematical concepts as well as different solution methods the authors lead students to the ultimate goal of mastery and success in class

Algebra and Trigonometry Marvin L. Bittinger, 1996-11 *Algebra and Trigonometry and Precalculus, Student's Solutions Manual* Judith A. Penna, 2004-06 **EBOOK: College Algebra with Trigonometry** Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki, 2010-03-16 Barnett Ziegler Byleen and Sobecki's College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text

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