Name: ______ Date: ______

Worksheet 3-1: Right Triangles and Trigonometric Ratios

Properties of Right Triangle:



- 1. Sum of Triangle Theorem
- 2. Complimentary Angles
- **3.** Pythagorean Theorem: $a^2 + b^2 = c^2$

C is the hypotenuse which is _____

Practice:

1. Find the unknown angle and side of $\triangle DEF$.



Assigned Work: WS 3-1; Handout "Finding Trigonometric Ratios"

Date: _____

Trigonometric Ratios

A branch of mathematics called trigonometry is used to calculate triangle measures. A trigonometric ratio is the ratio of the lengths of two sides in a **right triangle**.

When working with right triangles to find trigonometric ratios, the sides are given special names in relation to the acute angle being considered: hypotenuse, opposite side and adjacent side.



There are 3 Trigonometric Ratios: (SOH CAH TOA)

1.	Sine Ratio	
	sin A =	sin B =
	=	=
2.	Cosine Ratio	
	cos A =	cos B =
	=	=
3.	Tangent Ratio	
	tan A =	tan B =
	_	_