Flash Cards: Unit Warm-Up

Directions: Answer the following.

1. What is the Pythagorean Theorem?

2. What ratio is equal to the sine of an angle in a right triangle?

3. What ratio is equal to the cosine of an angle in a right triangle?

4. What ratio is equal to the tangent of an angle in a right triangle?

5. The reciprocal of sine is _____.

6. The reciprocal of cosine is _____.

7. The reciprocal of tangent is _____.

8. What is the Law of Sines?

9. What is the Law of Cosines?

Answers:

1. a, b and c are the side lengths of a right triangle, c is the hypotenuse.
$a^2 + b^2 = c^2$

2. Opposite side divided by the hypotenuse

3. Adjacent side divided by the hypotenuse

4. Opposite side divided by the adjacent side

5. cosecant

6. secant

7. cotangent

8. It says that in any triangle, the sine of an angle and the side opposite it is proportional to the sine of another angle and the side opposite it.
Sine of A divided by a equals sine of B divided by b equals sine of C divided by c.

9. It relates the side of any triangle.
$a^2 = b^2 + c^2 - 2bccosA$

*The a, b and c can be changed around as long as the angle, 'A', is opposite the side length used on the left side of the equation.