### 12.1 Trigonometric Ratios Day 2

## Purpose:

To find the missing sides and angles of right triangles.

Learning Target:
a. Given a right triangle, I can define the sine, cosine, and tangent ratios from an unknown angle.
b. I can use Trigonometric Ratios to solve for unknown sides and angles in a right triangle.

## Finding Missing Sides

You can find trigonometric ratios using your calculator!
**** Make sure your calculator is in


Examples: Find the values using your calculator
 Thousand the

1. $\sin 45^{\circ}$

2. $\cos 87^{\circ}$

3. $\tan 37^{\circ}$



Examples: Find the missing side lengths.

7.

$\sin 40^{\circ}=\xrightarrow[x]{16}$


10. Soon we will talk about inscribed angles and discover that their measure is half the arc that they intersect.

Find g assuming that the triangle below is a right triangle.


