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$\qquad$ Class $\qquad$

## Lesson 4 Worksheet 2 <br> Using inverse trig ratios to solve for an angle in a right triangle

Part I: Use your calculator and inverse trig functions to find the angle for each ratio below to the nearest tenth (round to 1 decimal place).

1. $\sin ^{-1} .86=$ $\qquad$
2. $\cos ^{-1} .72=$ $\qquad$
3. $\tan ^{-1} .53=$ $\qquad$
4. $\sin ^{-1} 5 / 8=$ $\qquad$
5. $\cos ^{-1} 1 / 8=$ $\qquad$
6. $\tan ^{-1} 2=$ $\qquad$
7. $\sin ^{-1} .5=$ $\qquad$
8. $\cos ^{-1} \cdot 3=$ $\qquad$
9. $\tan ^{-1} 4.6=$ $\qquad$
10. $\sin x=3 / 4, \quad x=$ $\qquad$ 8. $\cos x=1 / 2, x=$ $\qquad$ 12. $\tan x=7 / 8, x=$ $\qquad$

Part II: Solve for $x$ in each triangle below. Use what you learned in lesson 3 to first identify the ratio, then write the equation, and then solve the equation. Make sure your calculator is in degree mode. Round your answers to the nearest tenth.
1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

$\qquad$ Date $\qquad$ Class $\qquad$

## Lesson 5 Worksheet 3 Solving Application Problems, Part I

Solve for $x$ in each triangle below. Use what you learned in lesson 3 and 4 to first identify the ratio, then write the equation, and then solve the equation. Make sure your calculator is in degree mode. Round your answers to 2 decimal places.
1.

2.

5.

3.

6.

7.

8.


