Quiz 5.1 Review - Honors Name: _____

Due Monday, 3/5 – Quiz Tuesday!

Find the trig values by using your calculator. Round to the nearest thousandths.

1. $\sin(13°) =$ 2. $\cos(77°) =$

3. How do the **angles** in numbers 1 & 2 relate?

4. What is important to notice about the **trig ratio values** of numbers 1 & 2?

5. **Solve**: Hypotenuse is 12, and angle is 12°, find the side opposite the angle.

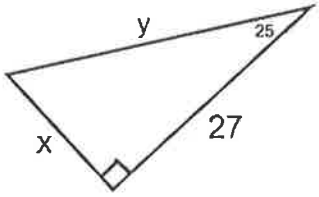
6. **Solve**: Angle is 33, the side opposite the angle is 7. Find the hypotenuse.

7. a. If $\sin(x) = \cos(42)$ What is the value of x?
   b. If $\cos(x) = \sin(68)$ What is the value of x?
   c. If $\cos(x) = \sin(y)$; rewrite the equation ALL in terms of y.

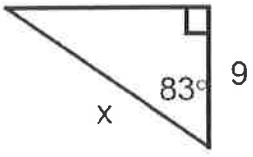
   d. If $\sin(A) = \cos(B)$ rewrite the equation ALL in terms of B.

8. If $\tan(x) = \frac{3}{7}$ then what is the value of $\sin(x)$? [Draw a picture to help solve.]

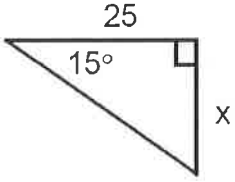
9. Solve for x and y.



10. Solve for x.

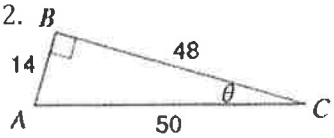


11. Solve for x.



#12-14 Compute the three trig values for reference angle *C*. Simplify the ratios if possible.

12.



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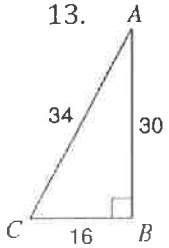

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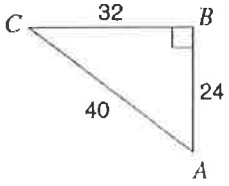
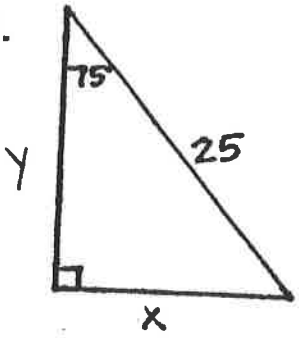


Solve for the Missing Side-Classwork Name: _____

Directions: All work should be completed on seperate paper. Keep your work neat and organized.
*Before starting #4, check the answers to #'s 1-3 *

1.



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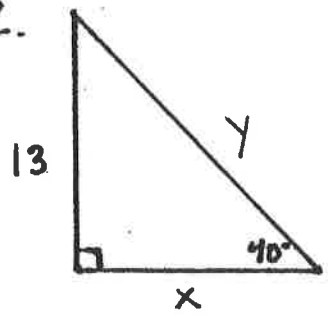

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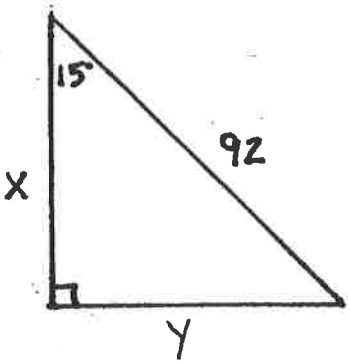

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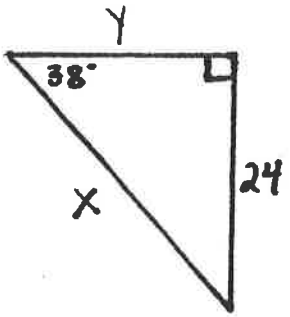

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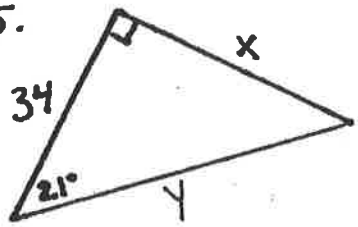

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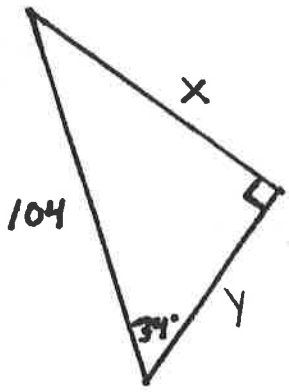

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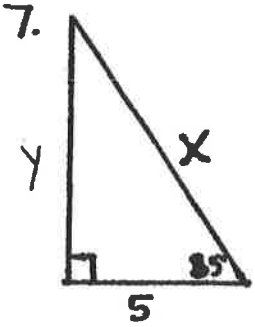

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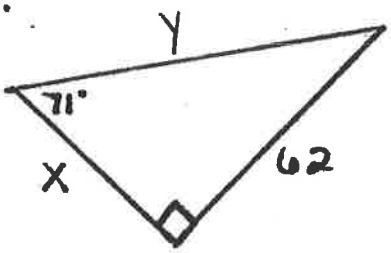

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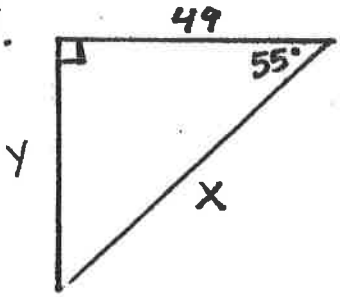

10. Given the angle is 45° and the adjacent side is 14, solve for the opposite side.

11. Given the angle is 22° and side opposite the angle is 83, solve for the hypotenuse.

12. Given the angle is 79° and the adjacent side is 16, solve for the length of the hypotenuse.