Name **Key**   Date_____ Pd___

9.4 – 9.6 Trigonometry DAY THREE CYU #1: Basic Trig Ratios

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Trig Ratios of Side Lengths	1 - 6		
Pythagorean Theorem	1 - 6		
Scientific Calculator	7 - 9	10 – 12	
Inverse Trig Functions		10 - 12	
Solving Right Triangles			13 - 17

1 – 6: Express the following as fractions in simplest form:

1. $\sin A =$ $\dfrac{\sqrt{3}}{2}$

2. $\cos A =$ $\dfrac{1}{2}$

3. $\tan A =$ $\sqrt{3}$

4. $\sin B =$ $\dfrac{1}{2}$

5. $\cos B =$ $\dfrac{\sqrt{3}}{2}$

6. $\tan B =$ $\dfrac{1}{\sqrt{3}}$ or $\dfrac{\sqrt{3}}{3}$

7 – 12: Use a scientific calculator or the table in your book to complete the following statements:

7. $\sin 70° \approx$ **0.940**

8. $\cos 32° \approx$ **0.848**

9. $\tan 14° \approx$ **0.249**

10. $\sin$ **77°** ≈ 0.9744

11. $\cos$ **7.987°** ≈ 0.9903
          8°

12. $\tan$ **60.999°** ≈ 1.8040
          61°

13 – 17: Solve the right triangle using a scientific calculator to find the value of x. Find lengths correct to the nearest integer and angles correct to the nearest degree.

13.

$x =$ **27**

14.

$x =$ **17**

15.

$x =$ **39°**

16.
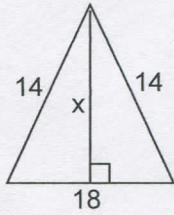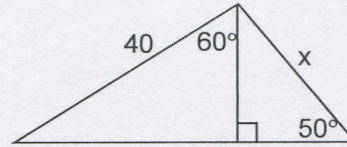

14 x 14

18

x = ___11___

17.

40 60° x

50°

x = ___26___

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

| 1 2 | 3   4   5 | 6   7 | 8 |
| Basic | Intermediate | Advanced | Solved ALL! |