Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Unit 3 Quiz Practice**

**I. Pythagorean Theorem**

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| 1. Find the missing side.  See the source image | 2. In a right triangle, the length of a hypotenuse is 19 and the length of one leg is What is the length of the other leg is? |

**II. Trig Ratios**

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| 3.    a. Write all 3 trig ratios for Angle A.  b. Write all 3 trig ratios for Angle C. | 4.    a. Write all 3 trig ratios for Angle A (use the variables).  b. Write all 3 trig ratios for Angle B (use the variables). | | |
| 5. Write an equivalent co-function for the following functions below:  a. sin(30)  b. cos(70)  c. tan(20)  d. sin(56)  7. If the, find the. | 6. If the, find the.  8. If the, find the. | |
| **III. Using Trig Ratios**  **Use the correct trig ratio to solve for a side or an angle.** | | | |
| 9. | | 10. | |
| 11. Solve for Angle A.  See the source image | | 12. If BA = 12, , what is side CA?  See the source image | |
| 13. If the tree is 100 ft tall and the person is 50 ft away from the base of the tree, what is the angle of elevation?  See the source image | | 14. How high is the kite from the ground? | |