Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_

Given that A and B are complementary angles:

**Label** each triangle side lengths using the ratios, and A and B if not already labeled

|  |  |  |
| --- | --- | --- |
| 1. sin A = 3/5    B  A  cos B= | 2. cos A = 5/6    sin B= | 3. If cos A = 17/35, what other trig ratio = 17/35?  \_\_\_\_\_\_\_\_  A  B |
| 4. If sin R = 38/91, what other trig ratio = 38/91?  R  T  \_\_\_\_\_\_\_\_\_ | 5. If sin A = 30/34, what is cos B? In your own words, explain why. | |
| 6. If sin A = 8/17, what other trig ratio = 8/17?    \_\_\_\_\_\_\_\_  C  \_\_\_\_\_\_\_\_  cos A =\_\_\_\_\_\_ | 7. If cos B = 3/5, what other trig ratio = 3/5?    \_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_  C  sin B =\_\_\_\_\_\_ | 8. If sin B = 5/13, what other trig ratio = 5/13?    \_\_\_\_\_\_\_\_  C  \_\_\_\_\_\_\_\_  cos A =\_\_\_\_\_\_ |

Find the missing angle.

|  |  |  |
| --- | --- | --- |
| 9. | 10. | 11. |
| 12. | 13. | 14. |

Find all trig ratios for each right triangle.

|  |  |
| --- | --- |
| 15.  β  θ  5  3  4  \_\_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_\_ \_\_\_\_\_ | 16.  sin A= sin B = \_\_\_\_\_  A  B  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  tan A = \_\_\_\_\_ tan B = |

