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

Given that A and B are complementary angles:

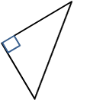
**Label** each triangle side lengths using the ratios, and A and B if not already labeled

|  |  |  |
| --- | --- | --- |
| 1. sin A = 3/5    B  A  cos B= | 2. cos A = 5/6    sin B= | 3. sin A = ¾    cos B= |
| 4. sin B = 3/8  cos A= | 5. sin A = 20/37  cos B= | 6. sin B = 25/38, what other trig ratio = 25/38?    \_\_\_\_\_\_\_\_ |
| 7. If cos A = 17/35, what other trig ratio = 17/35?    \_\_\_\_\_\_\_\_ | 8. If sin A = 38/91, what other trig ratio = 38/91?    \_\_\_\_\_\_\_\_\_ | 9. If cos B= 16/25, what other trig ratio = 16/25?    \_\_\_\_\_\_\_ |
| 10. If sin A = 8/17, what other trig ratio = 8/17?    \_\_\_\_\_\_\_\_  C  \_\_\_\_\_\_\_\_  cos A =\_\_\_\_\_\_ | 11. If cos B = 3/5, what other trig ratio = 3/5?    \_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_  C  sin B =\_\_\_\_\_\_ | 12. If sin B = 5/13, what other trig ratio = 5/13?    \_\_\_\_\_\_\_\_  C  \_\_\_\_\_\_\_\_  cos A =\_\_\_\_\_\_ |
| 13. If sin A = 30/34, what is cos B?  In your own words, explain why. | | |

Find the missing angle.

|  |  |  |
| --- | --- | --- |
| 14. | 15. | 16. |
| 17. | 18. | 19. |
| 20. | 21. | 22. |

Find all trig ratios for each right triangle.



A

B

8

6

10

|  |  |
| --- | --- |
| 23.  13  5  12  sin A= \_\_\_\_\_\_ sin B = \_\_\_\_\_  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  tan A =\_\_\_\_\_\_ tan B = \_\_\_\_\_ | 24.  sin A= \_\_\_\_\_\_ sin B = \_\_\_\_\_  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  tan A =\_\_\_\_\_\_ tan B = \_\_\_\_\_ |
| 25.  β  θ  5  3  4  \_\_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_\_ \_\_\_\_\_ | 26.  sin A= sin B = \_\_\_\_\_  A  B  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  tan A = \_\_\_\_\_ tan B = |
|  | |