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 = 5/6    Sin= | 3. sin A = 3/5    cos B= |
| 4. sin = 3/8  cos= | 5. sin = 20/37  cos ) = | 6. sin B = 25/38, what other trig ratio = 25/38?    A  \_\_\_\_\_\_\_\_  B |
| 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    \_\_\_\_\_\_\_\_  C  cos A =\_\_\_\_\_\_ | 11. If cos B = 3/5      \_\_\_\_\_\_\_\_  C  sin B =\_\_\_\_\_\_ | 12. If tan B = 5/12  ,    \_\_\_\_\_\_\_\_  C  cos B =\_\_\_\_\_\_ |
| 13. If sin = 30/34, what is cos ?  In your own words, explain why. | | |

Find the missing angle.

|  |  |  |
| --- | --- | --- |
| 14. | 15. | 16. |
| 17. | 18. | 19. |

Find all trig ratios for each right triangle.

|  |  |
| --- | --- |
| 20.  sin A= \_\_\_\_\_\_ sin B = \_\_\_\_\_  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  13  5  12  tan A =\_\_\_\_\_\_ tan B = \_\_\_\_\_ | 21.  sin A= \_\_\_\_\_\_ sin B = \_\_\_\_\_  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  A  B  8  6  10  tan A =\_\_\_\_\_\_ tan B = \_\_\_\_\_ |
| 22.  \_\_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_\_ \_\_\_\_\_  θ  5  3  4 | 23.  sin A= sin B = \_\_\_\_\_  cos A = \_\_\_\_\_ cos B =\_\_\_\_\_  tan A = \_\_\_\_\_ tan B =  A  B |

Answers rounded to the nearest thousandth.

24. A and B are complimentary angles. If Cos(A)=10/27, what is Tan(B)?

25. A and B are complimentary angles. If Sin(A)=7/11, what is Cos(A)?