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 = 8/15    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?  \_\_\_\_\_\_\_\_  B  A | 8. What other trig ratio is equal to sin R?  Q  R  \_\_\_\_\_\_\_\_\_ | 9. What other trig ratio is equal to cos H?  G  H  \_\_\_\_\_\_\_ |
| 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 B =\_\_\_\_\_  5  3  tan A =\_\_\_\_\_\_ | 21.  sin B = \_\_\_\_\_  A  B  cos A =  tan B = \_\_\_\_\_ |
| 22.  \_\_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_\_ \_\_\_\_\_  θ  5  3  4 | 23.  sin A= sin B = \_\_\_\_\_  cos B =\_\_\_\_\_  tan A = \_\_\_\_\_  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**)?