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 BAcos B= | 2. cos A = 5/6  sin B= | 3. If cos A = 17/35, what other trig ratio = 17/35?\_\_\_\_\_\_\_\_AB |
| 4. If sin R = 38/91, what other trig ratio = 38/91? RT\_\_\_\_\_\_\_\_\_ | 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$\overbar{AC}=$\_\_\_\_\_\_\_\_cos A =\_\_\_\_\_\_ | 7. If cos B = 3/5, what other trig ratio = 3/5?\_\_\_\_\_\_\_\_ $\overbar{AC}=$\_\_\_\_\_\_\_\_Csin B =\_\_\_\_\_\_ | 8. If sin B = 5/13, what other trig ratio = 5/13?\_\_\_\_\_\_\_\_ C$\overbar{BC}=$\_\_\_\_\_\_\_\_cos A =\_\_\_\_\_\_ |

Find the missing angle.

|  |  |  |
| --- | --- | --- |
| 9. $$sin20°=cos⁡\\_\\_\\_\\_\\_\\_\\_\\_°$$ | 10. $$sin50°=cos⁡\\_\\_\\_\\_\\_\\_\\_\\_°$$ | 11. $cos32°=sin⁡\\_\\_\\_\\_\\_\\_\\_\\_\\_°$ |
| 12. $sin 47.2°=cos⁡\\_\\_\\_\\_\\_\\_\\_\\_°$ | 13. $cos12.6°=sin⁡\\_\\_\\_\\_\\_\\_\\_\\_\\_°$ | 14. $sin47°=cos⁡\\_\\_\\_\\_\\_\\_\\_\\_\\_°$ |

Find all trig ratios for each right triangle.

|  |  |
| --- | --- |
| 15.βθ534 $\sin(θ)=$\_\_\_\_\_\_ $\sin(β)=$ \_\_\_\_\_ $\cos(θ)=$ \_\_\_\_\_ $\cos(β)=$\_\_\_\_\_ $\tan(θ)=$ \_\_\_\_\_\_ $\tan(β)=$ \_\_\_\_\_ | 16.  sin A= $\frac{21}{35}$ sin B = \_\_\_\_\_AB cos A = \_\_\_\_\_ cos B =\_\_\_\_\_ tan A = \_\_\_\_\_ tan B = $\frac{28}{21}$  |

