

Practice for 6.1 in the Trig Book

Find the following, if they exist. Round your answers to the nearest hundredth.

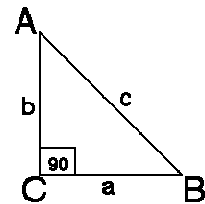
1. $\cos \vartheta = 0.4729$ 2. $\cot \vartheta = 7.624$ 3. $\sin \vartheta = 3.62$ 4. $\tan \vartheta = 1.65$ 5. $\sec \vartheta = 2.654$

6. $\sin 390^\circ$ 7. $\csc 576^\circ$ 8. $\cos 810^\circ$ 9. $\sin 15^\circ$ 10. $\sec 150^\circ$ 11. $\cot 90^\circ$ 12. $\csc 180^\circ$

Use the right triangle to the right to answer questions 13 – 19.

13. If $a = 8$ and $b = 11$, find c .

14. If $b = 7$ and $c = 12$, find a .



15. If $m\angle A = 35^\circ$, and $c = 24$, find a .

16. If $\tan B = 2.945$ and $b = 7$, find a .

17. If $a = 6$ and $b = 8$, find $m\angle A$.

18. If $a = 7$ and $c = 14$, find $\cos B$.

19. If $a = 3$ and $b = 5$, find $\sin A$.

Solve for x :

20. $\cos 80^\circ = \frac{7}{x}$

21. $\sin 25^\circ = \frac{9}{x}$

22. $\tan 72^\circ = \frac{x}{12.1}$

23. $\cot 23^\circ = \frac{x}{3.4}$