

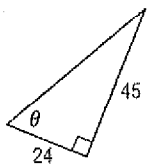


13-1 Practice

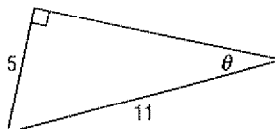
Right Triangle Trigonometry

Find the values of the six trigonometric functions for angle θ .

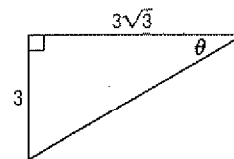
1.



2.

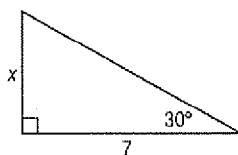


3.

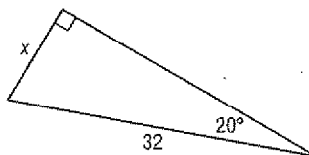


Write an equation involving sin, cos, or tan that can be used to find x . Then solve the equation. Round measures of sides to the nearest tenth and measures of angles to the nearest degree.

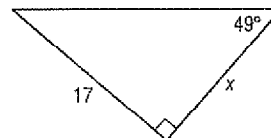
4.



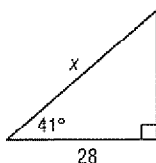
5.



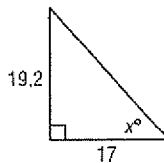
6.



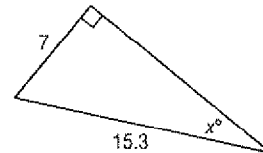
7.



8.



9.



Solve $\triangle ABC$ by using the given measurements. Round measures of sides to the nearest tenth and measures of angles to the nearest degree.

10. $A = 35^\circ, a = 12$

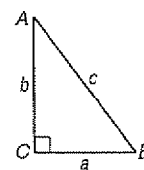
11. $B = 71^\circ, b = 25$

12. $B = 36^\circ, c = 8$

13. $a = 4, b = 7$

14. $A = 17^\circ, c = 3.2$

15. $b = 52, c = 95$



16. **SURVEYING** John stands 150 meters from a water tower and sights the top at an angle of elevation of 36° . How tall is the tower? Round to the nearest meter.