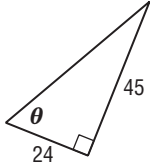


12-1 Practice

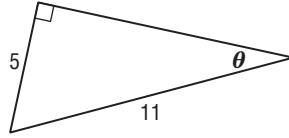
Trigonometric Functions in Right Triangles

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

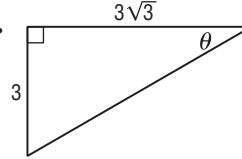
1.



2.



3.

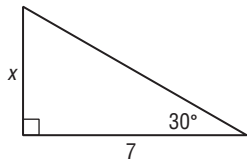


In a right triangle, $\angle A$ and $\angle B$ are acute.

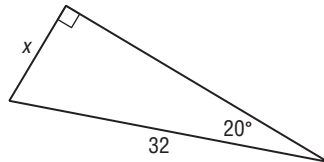
4. If $\tan B = 2$, what is $\cos B$? 5. If $\tan A = \frac{11}{17}$, what is $\sin A$? 6. If $\sin B = \frac{8}{15}$, what is $\cos B$?

Use a trigonometric function to find each value of x . Round to the nearest tenth if necessary.

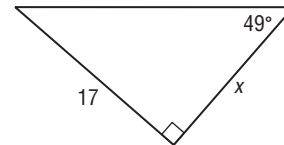
7.



8.

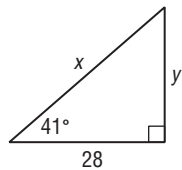


9.

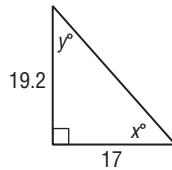


Use trigonometric functions to find the values of x and y . Round to the nearest tenth if necessary.

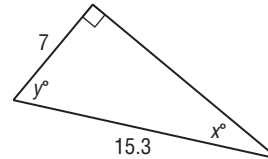
10.



11.



12.



13. **SURVEYING** John stands 150 meters from a water tower and sights the top at an angle of elevation of 36° . If John's eyes are 2 meters above the ground, how tall is the tower? Round to the nearest meter.