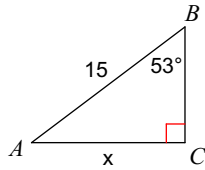


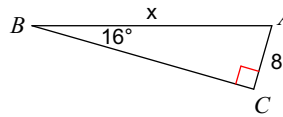
# Solving Triangles

Use trigonometric ratios to find the measure of each side indicated. Round to the nearest tenth.

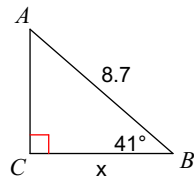
1)



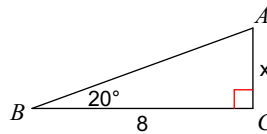
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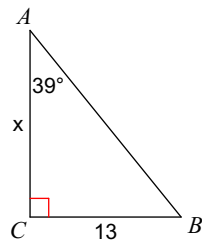
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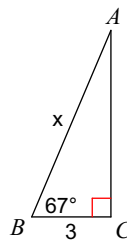
4)



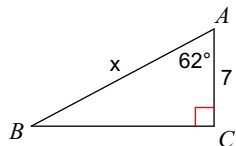
5)



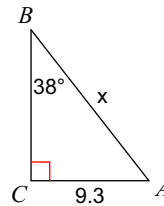
6)



7)

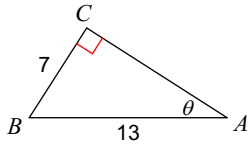


8)

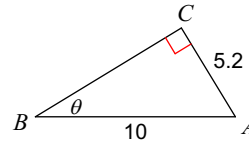


Use trigonometric ratios to find the measure of each angle indicated. Round to the nearest tenth.

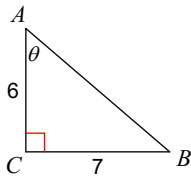
9)



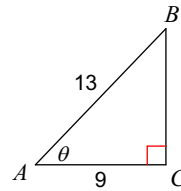
10)



11)



12)



13) Find  $m\angle B$  if  $a = 6$ ,  $b = 13$

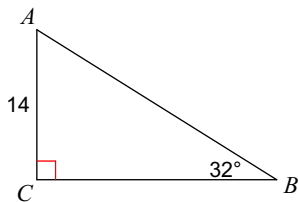
14) Find  $m\angle B$  if  $b = 13$ ,  $a = 7$

15) Find  $m\angle B$  if  $a = 13$ ,  $c = 15$

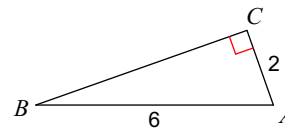
16) Find  $m\angle A$  if  $c = 13$ ,  $b = 10$

Solve each triangle. Round answers to the nearest tenth.

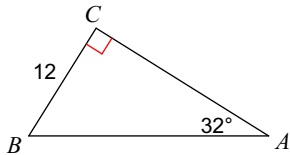
17)



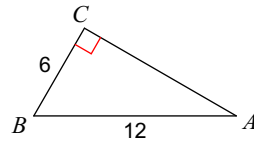
18)



19)



20)



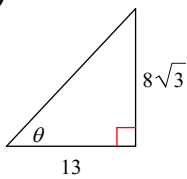
**In each problem, angle C is a right angle. Solve each triangle rounding answers to the nearest tenth.**

21)  $a = 5, m\angle B = 46^\circ$

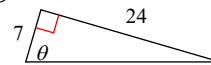
22)  $a = 11, m\angle A = 16.4^\circ$

**Find the value of the trig function indicated.**

23)  $\cos \theta$



24)  $\sin \theta$



25) If  $\sin \theta = \frac{\sqrt{2}}{2}$  then

$\cos \theta =$  \_\_\_\_\_

$\tan \theta =$  \_\_\_\_\_

26) If  $\tan \theta = \frac{\sqrt{6}}{12}$  then

$\sin \theta =$  \_\_\_\_\_

$\cos \theta =$  \_\_\_\_\_