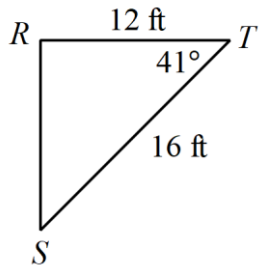
5.4

Name _____ Date _____ Period _____

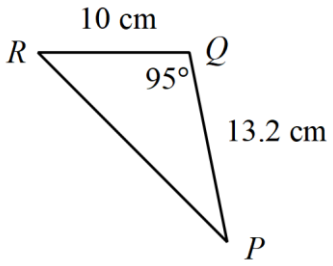
Law of Sines

Find the area of each triangle to the nearest tenth.

1.

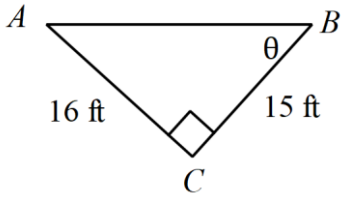


2.

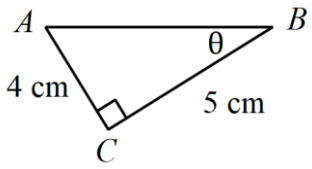


Using trigonometric rations, find the measure of each angle indicated. Round to the nearest tenth.

3.

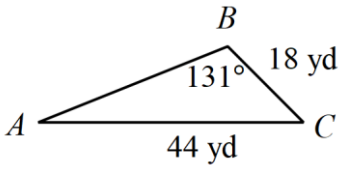


4.

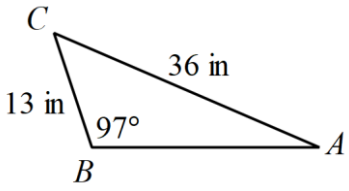


Find each measurement indicated. Round you answers to the nearest tenth.

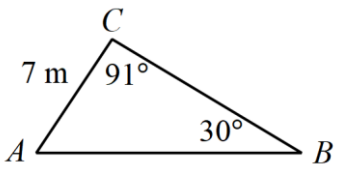
5. Find $m\angle A$.



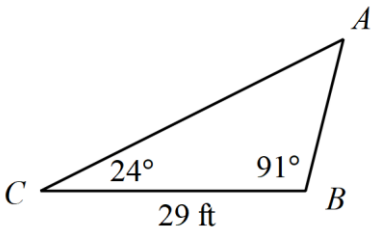
6. Find $m\angle A$.



7. Find $\overline{AB}$.

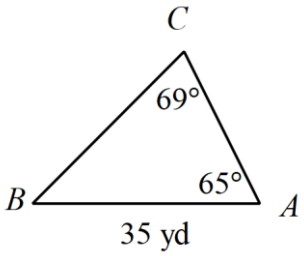


8. Find $\overline{AB}$.



Solve each triangle. Round you answers to the nearest tenth.

9.

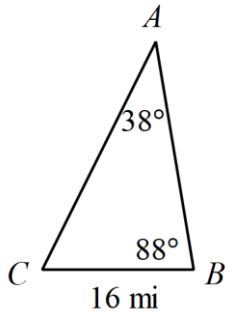


$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

10.

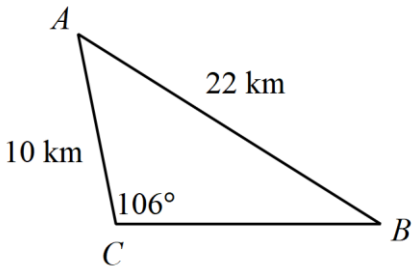


$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

11.

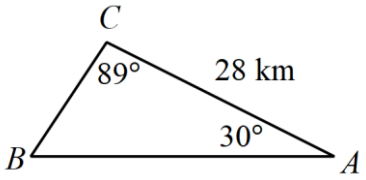


$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

12.

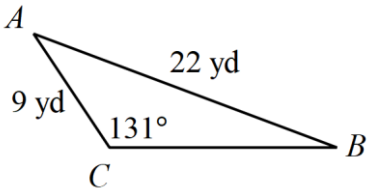


$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

13.

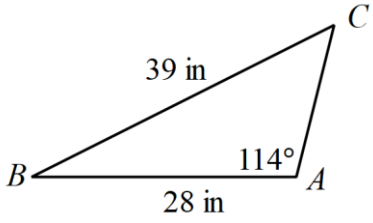


$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

14.



$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

15. $m\angle A = 113°, c = 10$ ft, $a = 21$ ft

$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

16. $m\angle C = 16°, m\angle A = 139°$, c = 13 in

$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

17. $m\angle C = 107°, m\angle B = 52°$, b = 33 mi

$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____

18. $m\angle A = 145°, m\angle C = 13°$, c = 9 in

$m\angle A =$ _____ $a =$ _____

$m\angle B =$ _____ $b =$ _____

$m\angle C =$ _____ $c =$ _____