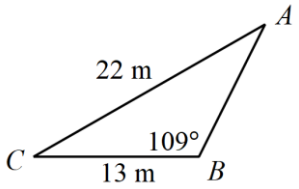
5.6

Name _____ Date _____ Period _____

Review Law of Sines and Cosines

State whether the triangle is SAS, AAS, ASA, SSS, SSA (if is SSA state that there will be triangles). Determine if you would use Las of Sines or Law of Cosines to find the missing values.

1.



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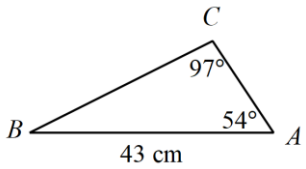

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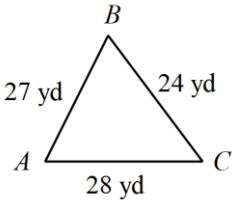

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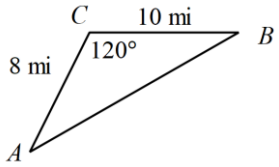

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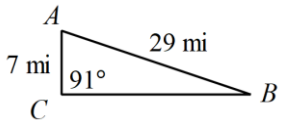

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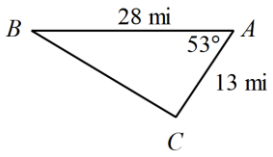

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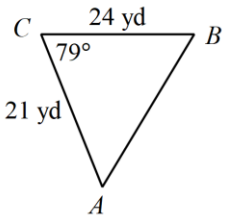
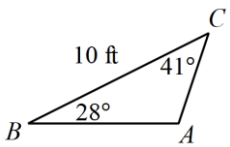


8.



9. $a = 17.2$ ft, $b = 17.7$ ft, $c = 21.1$ ft

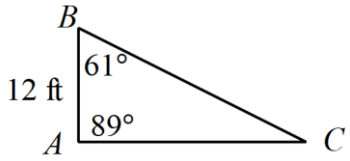
10. $m\angle B = 38°$, $a = 20$ mi, $b = 22$ mi

11. $m\angle C = 92°$, $c = 33$ m, $b = 18$ m

12. $m\angle C = 89°$, $b = 28$ in, $a = 18$ in

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

13.

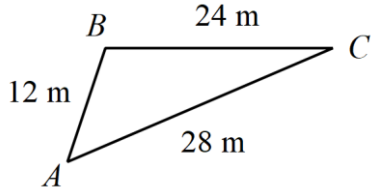


$m\angle A =$ _____ $a =$ _____

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

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

14.



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

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

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

15. $m\angle B = 51°, a = 9$ mi, $b = 16$ mi

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

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

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

16. $m\angle B = 91°, a = 24$ yd, $b = 14$ yd

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

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

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

Simplify each expression.

17. $\frac{10x+100}{x^2+14x+40} \cdot \frac{x^2+3x-4}{x^2-6x+5}$

18. $\frac{v^2-11v+24}{v^2+2v-15} \div \frac{5v-40}{7v^2+35v}$