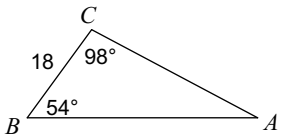
Trigonometry Name_____ ID: 1

Law of Sines/Cosines/Area~ Review

Date_____ Period____

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

1)



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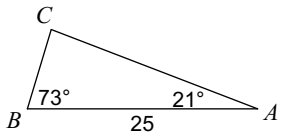

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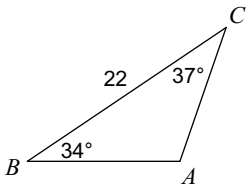

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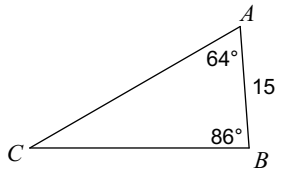
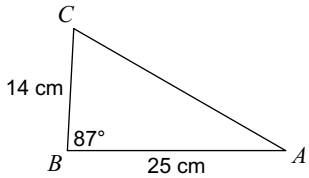


5) $m\angle A = 103°$, $m\angle C = 40°$, $c = 31$

6) $m\angle A = 27°$, $m\angle B = 146°$, $a = 26$

7)



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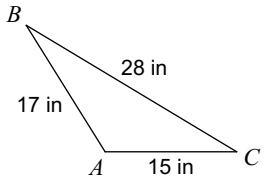

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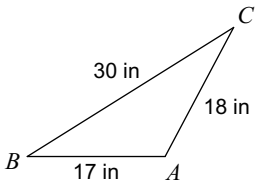

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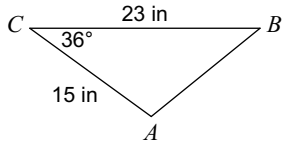


11) $b = 26$ yd, $m\angle A = 123°$, $c = 17$ yd

12) $m\angle C = 97°$, $a = 20$ yd, $b = 30$ yd

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

13) $m\angle B = 48°$, $a = 33$ ft, $b = 29$ ft
Find $m\angle C$

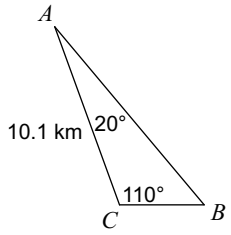
14) $m\angle A = 29°$, $a = 21$ ft, $c = 6$ ft
Find $m\angle C$

15) $m\angle B = 57°$, $a = 25$ yd, $b = 21$ yd
Find $m\angle A$

16) $m\angle B = 91°$, $a = 30$ m, $b = 24$ m
Find $m\angle C$

Find the area of each triangle to the nearest tenth.

17)



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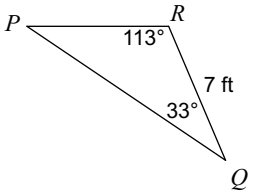

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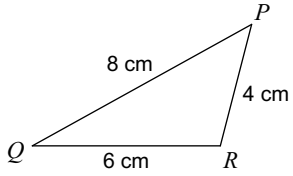

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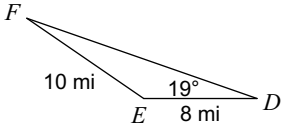

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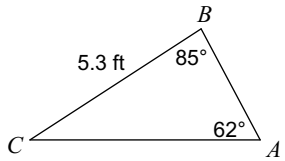

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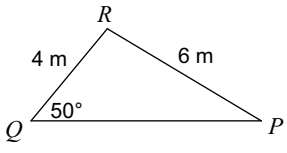


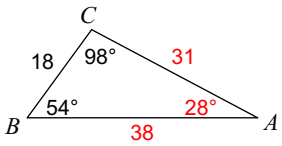
Trigonometry Name_____ ID: 1

Law of Sines/Cosines/Area~ Review

Date_____ Period____

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

1)



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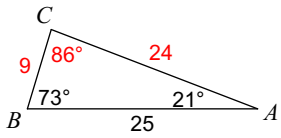

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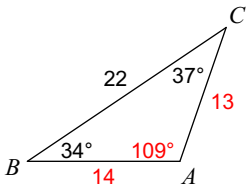

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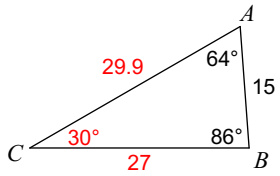


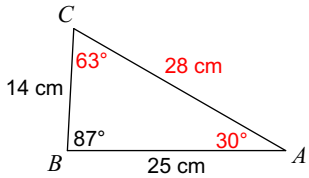
5) $m\angle A = 103°$, $m\angle C = 40°$, $c = 31$

$m\angle B = 37°$, $a = 47$, $b = 29$

6) $m\angle A = 27°$, $m\angle B = 146°$, $a = 26$

$m\angle C = 7°$, $c = 7$, $b = 32$

7)



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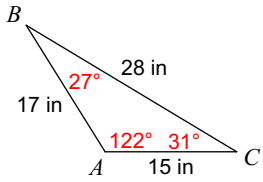

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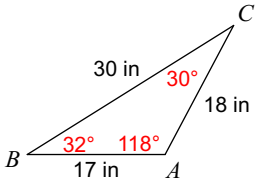

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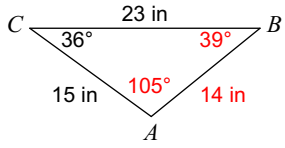


11) $b = 26$ yd, $m\angle A = 123°$, $c = 17$ yd

$m\angle B = 35°$, $m\angle C = 22°$, $a = 38$ yd

12) $m\angle C = 97°$, $a = 20$ yd, $b = 30$ yd

$m\angle A = 31.4°$, $m\angle B = 51.6°$, $c = 38$ yd

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

13) $m\angle B = 48°$, $a = 33$ ft, $b = 29$ ft
Find $m\angle C$

74.3° or 9.7°

14) $m\angle A = 29°$, $a = 21$ ft, $c = 6$ ft
Find $m\angle C$

8°

15) $m\angle B = 57°$, $a = 25$ yd, $b = 21$ yd
Find $m\angle A$

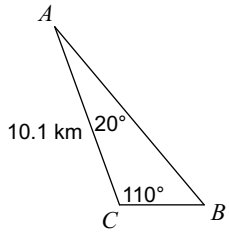
86.8° or 93.2°

16) $m\angle B = 91°$, $a = 30$ m, $b = 24$ m
Find $m\angle C$

Not a triangle

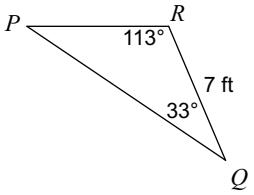
Find the area of each triangle to the nearest tenth.

17)



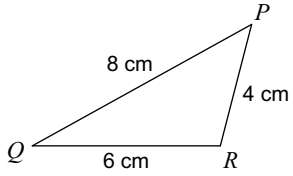
21.4 km²

18)



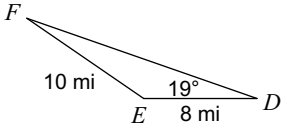
21.9 ft²

19)



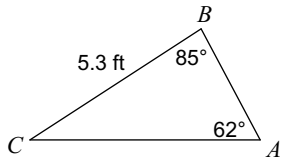
11.6 cm²

20)



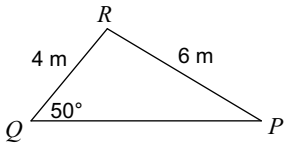
22.4 mi²

21)



8.7 ft²

22)



11.8 m²