

Law of Cosines

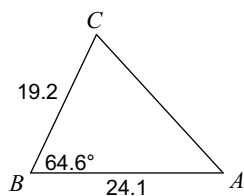
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Name _____

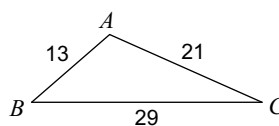
Date _____

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

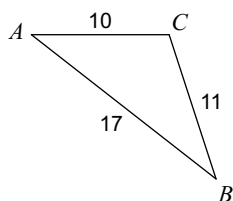
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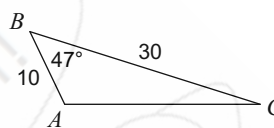
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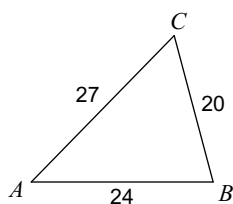
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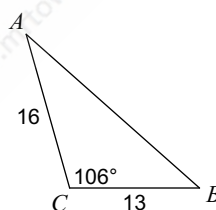
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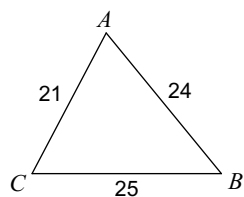
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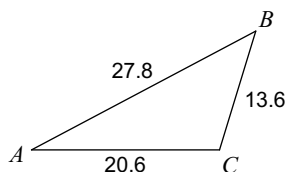
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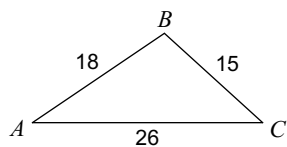
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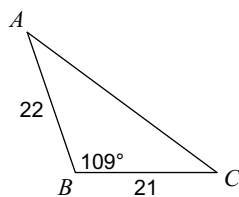
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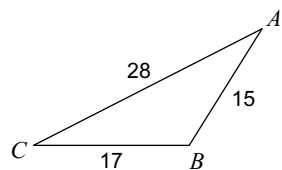
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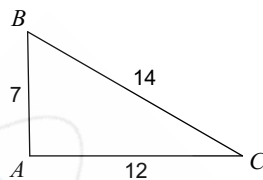
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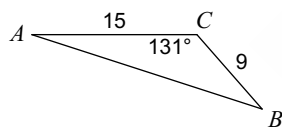
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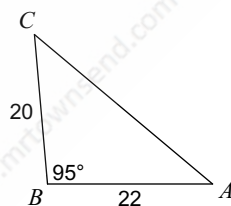
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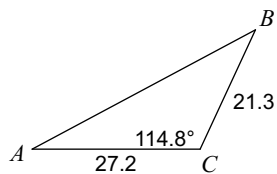
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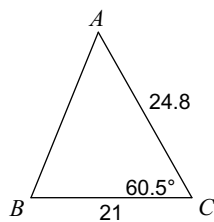
14)



15)



16)



Answers to Law of Cosines

- 1) $m\angle C = 67.8^\circ$, $m\angle A = 47.6^\circ$, $b = 23.5$
- 2) $m\angle A = 115^\circ$, $m\angle B = 41^\circ$, $m\angle C = 24^\circ$
- 3) $m\angle B = 34^\circ$, $m\angle C = 108^\circ$, $m\angle A = 38^\circ$
- 4) $m\angle C = 17.5^\circ$, $m\angle A = 115.5^\circ$, $b = 24.3$
- 5) $m\angle A = 45.7^\circ$, $m\angle B = 75.1^\circ$, $m\angle C = 59.2^\circ$
- 6) $m\angle A = 32.5^\circ$, $m\angle B = 41.5^\circ$, $c = 23.2$
- 7) $m\angle C = 62.2^\circ$, $m\angle A = 67.1^\circ$, $m\angle B = 50.7^\circ$
- 8) $m\angle B = 45.1^\circ$, $m\angle C = 107^\circ$, $m\angle A = 27.9^\circ$
- 9) $m\angle C = 42.3^\circ$, $m\angle A = 34.1^\circ$, $m\angle B = 103.6^\circ$
- 10) $m\angle C = 36.4^\circ$, $m\angle A = 34.6^\circ$, $b = 35$
- 11) $m\angle A = 31^\circ$, $m\angle B = 122^\circ$, $m\angle C = 27^\circ$
- 12) $m\angle B = 59^\circ$, $m\angle C = 30^\circ$, $m\angle A = 91^\circ$
- 13) $m\angle A = 18^\circ$, $m\angle B = 31^\circ$, $c = 22$
- 14) $m\angle C = 45^\circ$, $m\angle A = 40^\circ$, $b = 31$
- 15) $m\angle A = 28.2^\circ$, $m\angle B = 37^\circ$, $c = 41$
- 16) $m\angle A = 51.6^\circ$, $m\angle B = 67.9^\circ$, $c = 23.3$

