

Law of Cosines

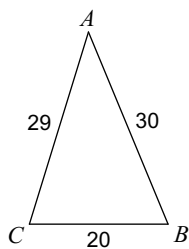
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Name _____

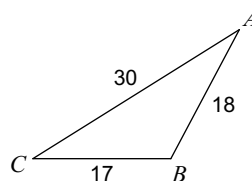
Date _____

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

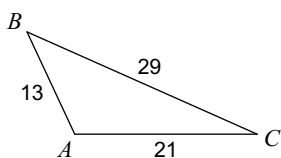
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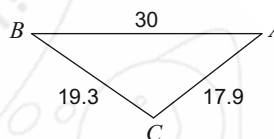
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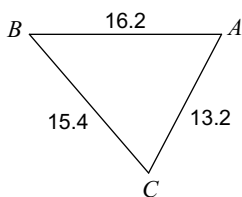
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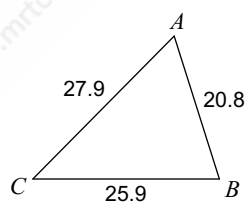
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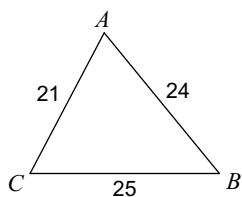
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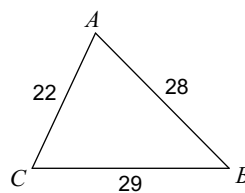
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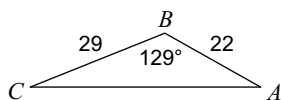
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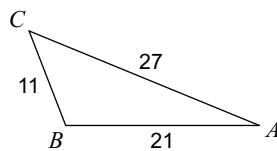
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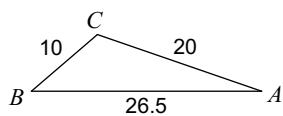
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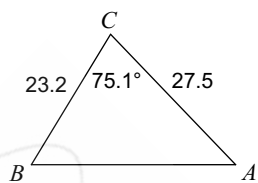
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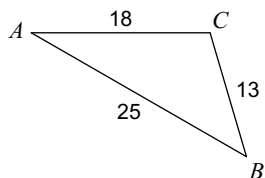
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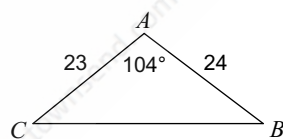
12)



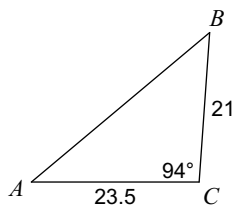
13)



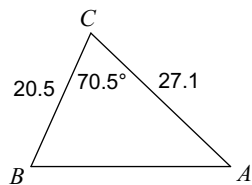
14)



15)



16)



Answers to Law of Cosines

- 1) $m\angle C = 72.9^\circ$, $m\angle A = 39.6^\circ$, $m\angle B = 67.5^\circ$
- 2) $m\angle C = 32^\circ$, $m\angle A = 30^\circ$, $m\angle B = 118^\circ$
- 3) $m\angle A = 115^\circ$, $m\angle B = 41^\circ$, $m\angle C = 24^\circ$
- 4) $m\angle A = 37.9^\circ$, $m\angle B = 34.7^\circ$, $m\angle C = 107.4^\circ$
- 5) $m\angle C = 68.5^\circ$, $m\angle A = 62.2^\circ$, $m\angle B = 49.3^\circ$
- 6) $m\angle A = 62.3^\circ$, $m\angle B = 72.4^\circ$, $m\angle C = 45.3^\circ$
- 7) $m\angle C = 62.2^\circ$, $m\angle A = 67.1^\circ$, $m\angle B = 50.7^\circ$
- 8) $m\angle B = 45.4^\circ$, $m\angle C = 64.9^\circ$, $m\angle A = 69.7^\circ$
- 9) $m\angle C = 21.7^\circ$, $m\angle A = 29.3^\circ$, $b = 46.1$
- 10) $m\angle B = 111.2^\circ$, $m\angle C = 46.5^\circ$, $m\angle A = 22.3^\circ$
- 11) $m\angle C = 120.4^\circ$, $m\angle A = 19^\circ$, $m\angle B = 40.6^\circ$
- 12) $m\angle A = 46.2^\circ$, $m\angle B = 58.7^\circ$, $c = 31.1$
- 13) $m\angle C = 106.4^\circ$, $m\angle A = 29.9^\circ$, $m\angle B = 43.7^\circ$
- 14) $m\angle B = 37^\circ$, $m\angle C = 39^\circ$, $a = 37$
- 15) $m\angle A = 40^\circ$, $m\angle B = 46^\circ$, $c = 32.6$
- 16) $m\angle A = 43.7^\circ$, $m\angle B = 65.8^\circ$, $c = 28$

