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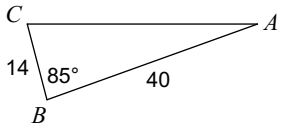
7.9 ~ The Law of Cosines

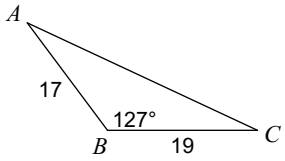
Past due on_____ Period____

Use the Law of Cosines to solve for the indicated side rounded to the nearest hundredth.

1) Find AC

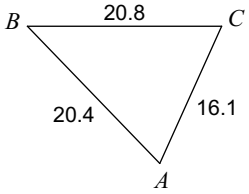


2) Find AC

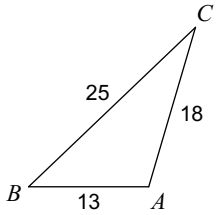


Use the Law of Cosines to solve for the indicated angle measure rounded to the nearest tenth of a degree.

3) Find $m\angle A$

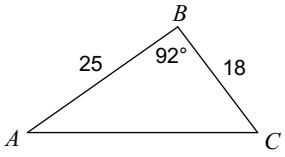


4) Find $m\angle B$

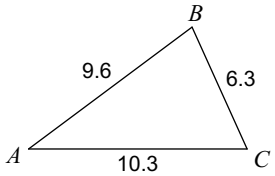


Use the Law of Cosines to solve the oblique triangle; that is, find ALL missing side lengths and angle measures. Round angle measures to the nearest tenth of a degree; round side lengths to the nearest hundredth.

5)



6)



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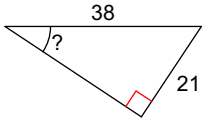
7.3 & 7.4 REVIEW: Write a trignometric ratio and then use an inverse trig function to find the measure of the indicated angle rounded to the nearest tenth of a degree.

7)



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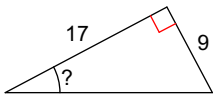

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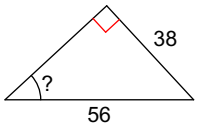

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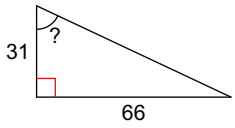
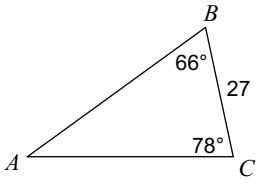
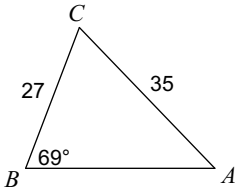


7.8 REVIEW: Use the Law of Sines to find the indicated measurement. Round angle measures to the nearest tenth of a degree; round side lengths to the nearest hundredth.

11) Find AB



12) Find $m\angle A$



7.7 REVIEW: Draw a diagram that represents the situation and then set up and solve a trigonometric equation. Round solutions to the nearest tenth.

13) A parasailer is being pulled by a boat. The rope tethering the parasailer to the boat is 400 feet long. The angle of depression from the parasailer to the boat is 36°. How high above the water's surface is the parasailer?

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