

Name: \_\_\_\_\_

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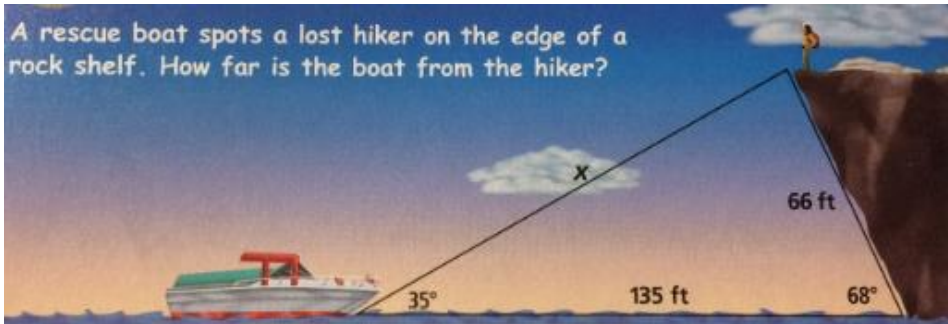
Period: \_\_\_\_\_

Mr. Valentino

Aim: What is the Law of Sines?

Do Now: Can you use trig to solve this problem?

Why or why not?



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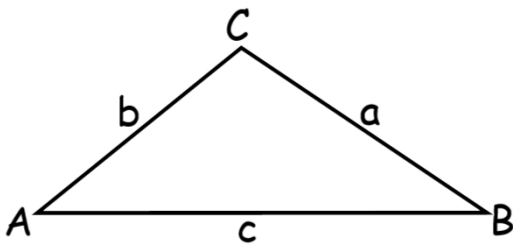
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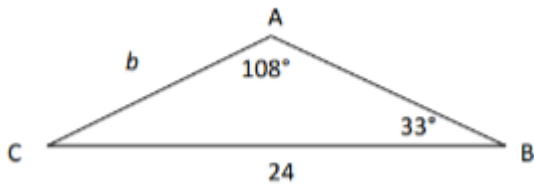
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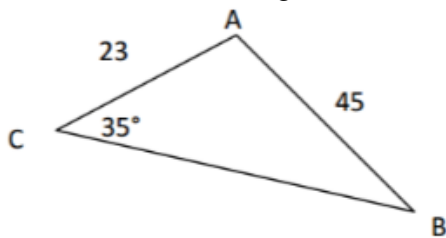
Proving the Law of Sines



Find the length of b. Round to the nearest tenth.

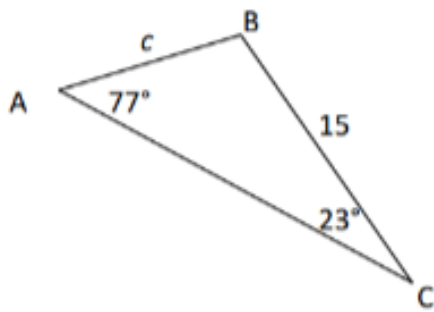


Find the measure of angle B to the nearest degree.

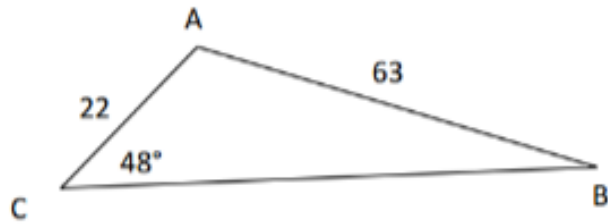


Practice Problems

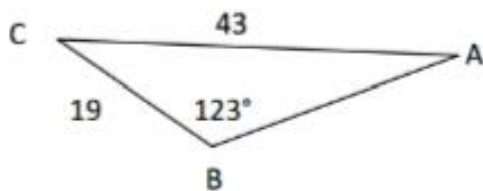
1. For  $\triangle ABC$  find  $c$  to the nearest hundredth.



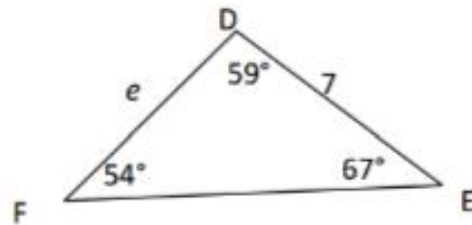
2. For  $\triangle ABC$  find  $m\angle B$  to the nearest whole degree.



3. For  $\triangle ABC$  find  $m\angle A$  to the nearest whole degree.



4. For  $\triangle DEF$  find  $e$  to the nearest hundredth.



5. For  $\triangle ABC$ ,  $a = 18$ ,  $b = 6$ , and  $m\angle A = 28^\circ$ . Find  $m\angle B$  to the nearest whole degree.

6. For  $\triangle DEF$ ,  $d = 54$ ,  $f = 27$ ,  $m\angle D = 20^\circ$ . Find  $m\angle F$  to the nearest whole degree.