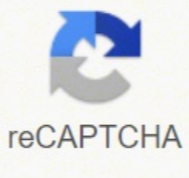
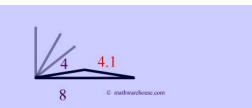




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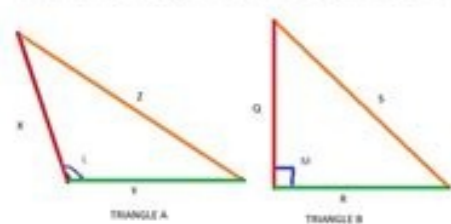


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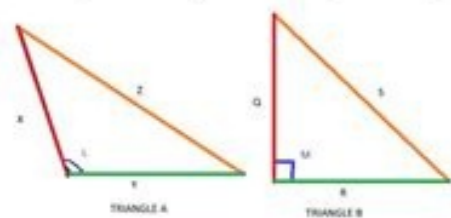
Quiz & Worksheet - Triangle Inequality Theorems

1. If Side X is congruent to Side Q and Side Y is congruent to Side R, and Angle L is greater than Angle M, then...



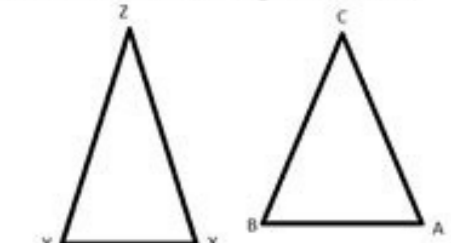
- Side Z is greater than Side S.
- Side S is greater than Side Z.
- That is not possible.
- Side Z is twice as long as Side S.
- None of the answers is correct.

2. Given that Side Z is longer than Side S, and Side Q is congruent to Side X, what additional piece of information would you need to prove that Angle L is larger than Angle M?



- Side Y is congruent to Side R.
- Side Y is longer than Side R.
- Side Y is shorter than Side R.
- The angles in Triangle A all add to 180 degrees.
- You do not need any extra information.

3. Angle Y equals Angle X, and Angle A equals Angle B. Side YZ is congruent to Side BC. Side YX is shorter than Side BA. Which of the following must be true?



- Angle Z is larger than Angle C.
- Angle Z is smaller than Angle C.
- Angles A, B, and C all equal 60 degrees.
- Angle Z = Angle C.
- Angle X = Angle A.

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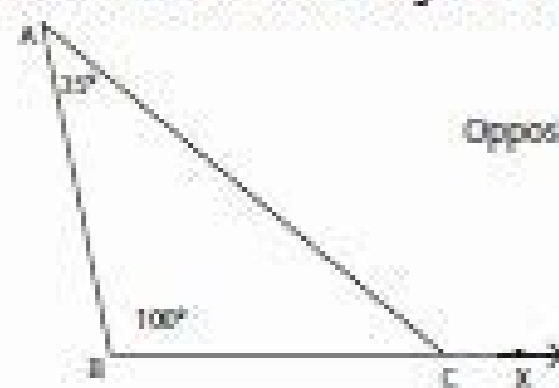
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Name: \_\_\_\_\_

Triangle-Exterior Angle

Sheet 1

The measure of an exterior angle of a triangle is equal to sum of the measures of opposite interior angles.



Exterior angle :  $\angle ACX$   
Opposite interior angles :  $\angle A$  and  $\angle B$

Exterior angle = Sum of opposite interior angles

$$\begin{aligned} \angle ACX &= \angle A + \angle B \\ \angle ACX &= 100^\circ + 35^\circ \\ \angle ACX &= 135^\circ \end{aligned}$$

Find the unknown exterior angle for each triangle.

<p>1)  <math>\angle EFX =</math> <input type="text"/></p>	<p>2)  <math>\angle TVX =</math> <input type="text"/></p>	<p>3)  <math>\angle BDY =</math> <input type="text"/></p>
<p>4)  <math>\angle EFX =</math> <input type="text"/></p>	<p>5)  <math>\angle PQX =</math> <input type="text"/></p>	<p>6)  <math>\angle VWX =</math> <input type="text"/></p>
<p>7)  <math>\angle KJX =</math> <input type="text"/></p>	<p>8)  <math>\angle ABX =</math> <input type="text"/></p>	<p>9)  <math>\angle QRX =</math> <input type="text"/></p>



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