READY, SET, GO! Name Period Date

READY

Topic: Recalling features of the rigid-motion transformations

Complete each statement

1. When I use line segments to connect the corresponding points of a pre-image and the image in a translation, the line segments are _____ and _____ because _____

2. When I use line segments to connect the corresponding points of a pre-image and the image in a reflection, the line of reflection is the _____ of the segments because _____

3. In a rotation, the corresponding points of the pre-image and the image are the same _____ from the center of rotation because _____

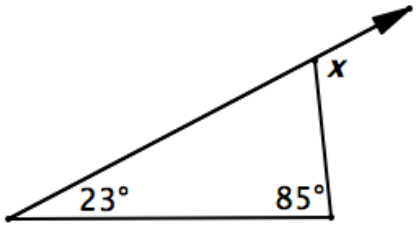
4. Translations, rotations, and reflections are rigid motion transformations because _____

SET

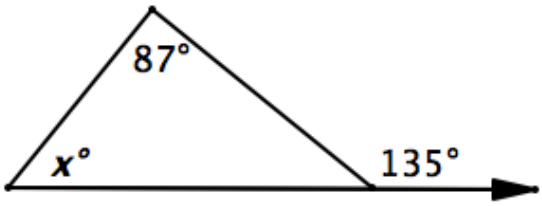
Topic: Solving for missing angles

Use what you know about vertical angles, exterior angles, and the angles formed by parallel lines and transversals to find the value of x in each of the diagrams.

5.



6.



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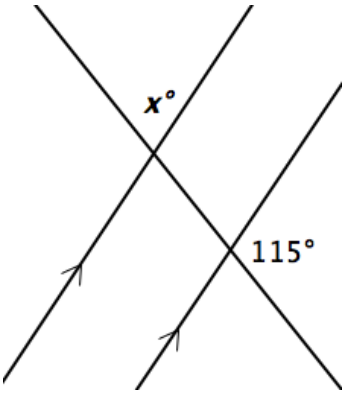
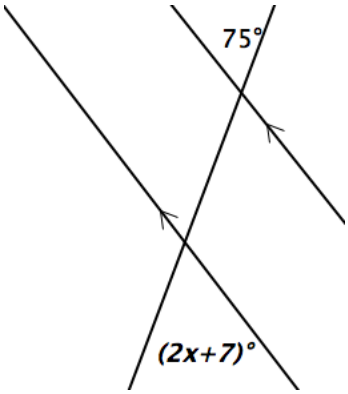
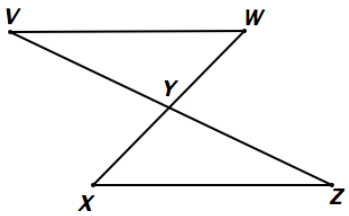
mathematics vision project

7. 

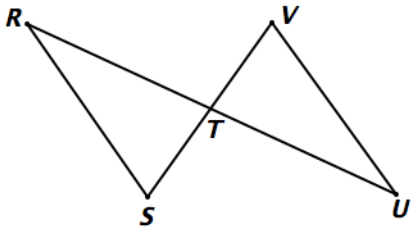
8. 

Prove each of the following.

9. Given: Y is the midpoint of $\overline{VZ}$ and $\overline{XW}$.
Prove: $\Delta VYW \cong \Delta ZYX$



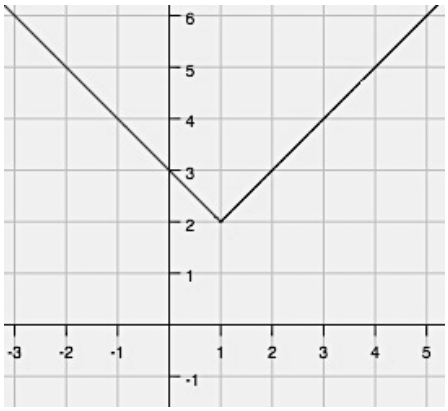
10. Given $\angle R \cong \angle U$ and $\overline{ST} \cong \overline{VT}$.
Prove: $\Delta SRT \cong \Delta VUT$



GO

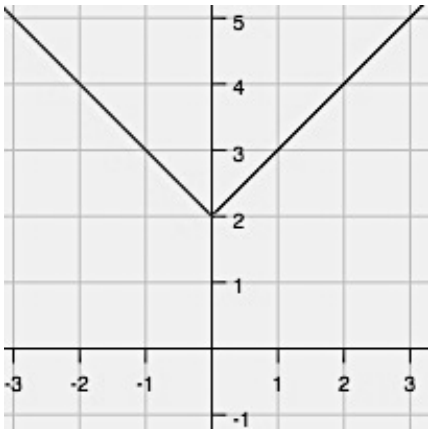
Topic: Connecting a piecewise defined equation with the corresponding absolute value equation

The graph of an absolute value function is given. A) Write the equation using absolute value notation. B) Then write the equation as a piecewise defined function.

15. 

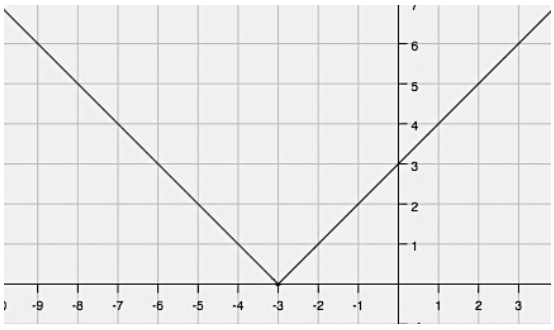
A.

B.

16. 

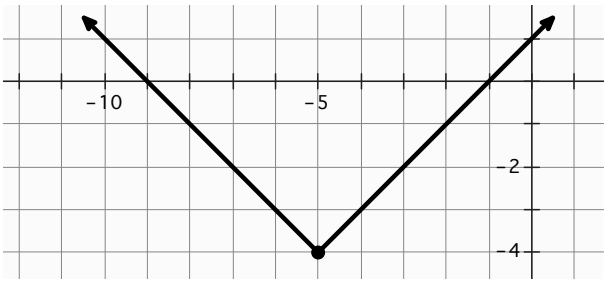
A.

B.

17. 

A.

B.

18. 

A.

B.