

Vocabulary Flash Cards

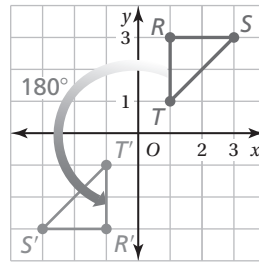
<p>angle of rotation</p> <p><i>Chapter 2</i></p>	<p>center of dilation</p> <p><i>Chapter 2</i></p>
<p>center of rotation</p> <p><i>Chapter 2</i></p>	<p>congruent angles</p> <p><i>Chapter 2</i></p>
<p>congruent figures</p> <p><i>Chapter 2</i></p>	<p>congruent sides</p> <p><i>Chapter 2</i></p>
<p>dilation</p> <p><i>Chapter 2</i></p>	<p>image</p> <p><i>Chapter 2</i></p>

Vocabulary Flash Cards

A point with respect to which a figure is dilated

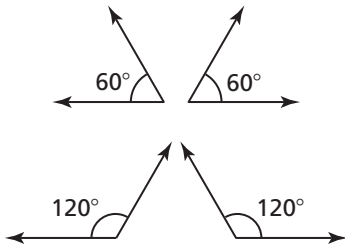
See *dilation*.

The number of degrees a figure rotates about a point



$\triangle RST$ has been rotated 180° to $\triangle R'S'T'$.

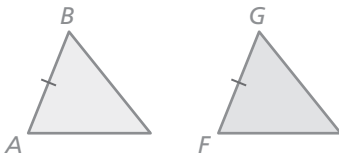
Angles that have the same measure



The point about which a figure is rotated

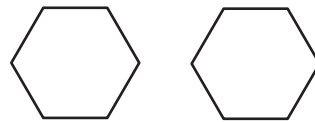
See *rotation*.

Sides that have the same length



Side AB and side FG are congruent sides.

Figures that have the same size and the same shape

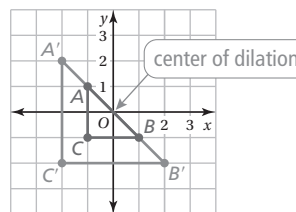


The new figure produced when a figure is transformed



The figure on the right is the image of the figure on the left.

A transformation in which a figure is made larger or smaller with respect to a fixed point called the center of dilation



$A'B'C'$ is a dilation of ABC with respect to the origin. The scale factor is 2.

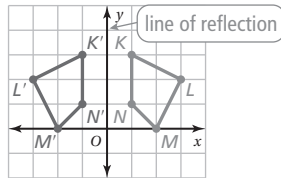
Vocabulary Flash Cards

<p>line of reflection</p> <p><i>Chapter 2</i></p>	<p>reflection</p> <p><i>Chapter 2</i></p>
<p>rigid motion</p> <p><i>Chapter 2</i></p>	<p>rotation</p> <p><i>Chapter 2</i></p>
<p>scale factor (of a dilation)</p> <p><i>Chapter 2</i></p>	<p>similar figures</p> <p><i>Chapter 2</i></p>
<p>similarity transformation</p> <p><i>Chapter 2</i></p>	<p>transformation</p> <p><i>Chapter 2</i></p>

Vocabulary Flash Cards

A flip; a transformation in which a figure is reflected in a line called the line of reflection; A reflection creates a mirror image of the original figure.

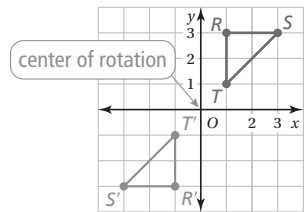
$K'L'M'N'$ is a reflection of $KLMN$ over the y -axis.



A line in which a transformed figure is reflected

See reflection.

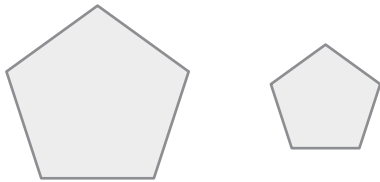
A turn; a transformation in which a figure is rotated about a point called the center of rotation; The number of degrees a figure rotates is the angle of rotation.



$\triangle RST$ has been rotated about the origin O to $\triangle R'S'T'$.

A transformation that preserves length and angle measure

Figures that have the same shape but not necessarily the same size; Two figures are similar when corresponding side lengths are proportional and corresponding angles are congruent.



The value of the ratio of the side lengths of the image to the corresponding side lengths of the original figure

The dilation represented by $(x, y) \rightarrow (3x, 3y)$ involves a scale factor of $k = 3$.

A change in the size, shape, position, or orientation of a figure

See translation, reflection, rotation, and dilation.

A dilation or a sequence of rigid motions and dilations

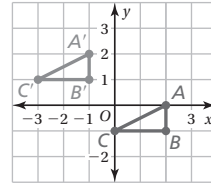
Vocabulary Flash Cards

translation

Chapter 2

Vocabulary Flash Cards

A slide; a transformation that shifts a figure horizontally and/or vertically, but does not change its size, shape, or orientation



ABC has been translated 3 units left and 2 units up to $A'B'C'$.