

Rotation

Definition: *turn*
Properties that are preserved: *Size and shape*



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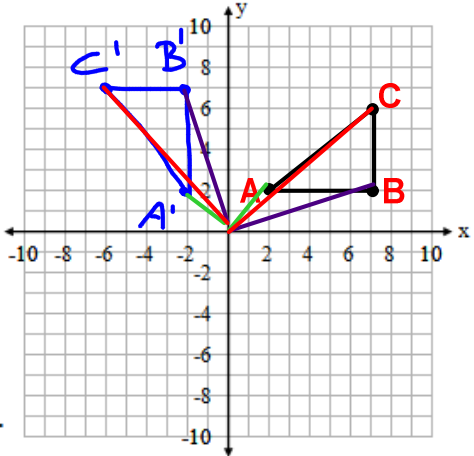
*****To rotate 90° around the origin, your point (x, y) becomes (-y, x).*****

Examples

1) Graph the following triangle and label the points. A(2, 2), B(7, 2), C(7, 6) Now rotate the triangle 90° counterclockwise. Graph and label the new triangle.

A(2, 2) → A'(-2, 2)

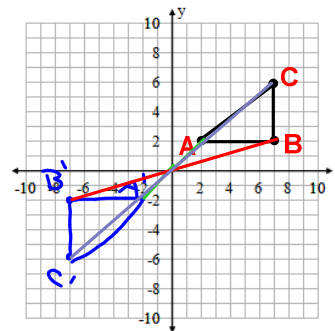
2) Now rotate the original 90° clockwise.



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To rotate 180° around the origin, your point (x, y) becomes $(-x, -y)$.

2) Graph the following triangle and label the points. $A(2, 2)$
 $B(7, 2)$ $C(7, 6)$ Now rotate the triangle 180° counterclockwise. Graph and label the new triangle.



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