


Unit 3 - Transformations: 3.4

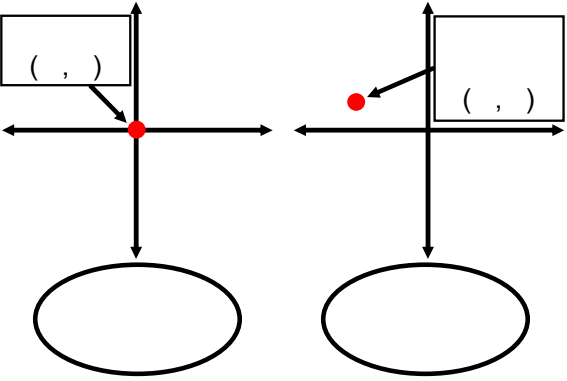


Rotations

Today's Learning Targets:

3.4 I can perform a rotation and write the new coordinates.

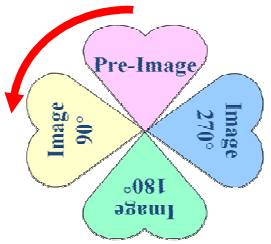
Rotation or Turn:
Turning an object around a _____.
This is called a rotation or turn.



Rotations

Unless stated, we rotate points and figures by _____ measuring by _____.

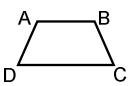
A sample diagram is shown below:



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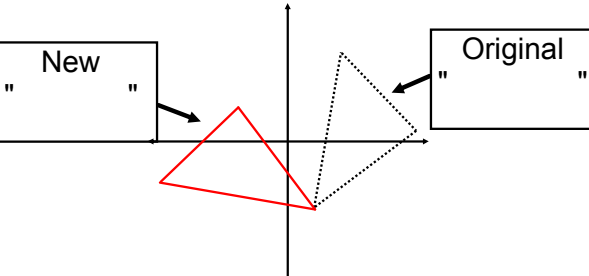
Draw a counter-clockwise rotation of the figure of:

90°	180°	270°
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Objective: Identify transformations including translation, rotation, reflection, and dilation

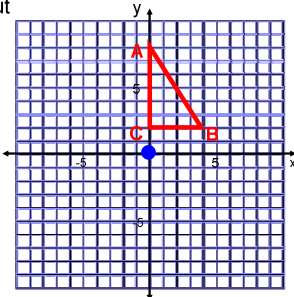
Rotation - Figure is turned around _____.



Graph a counterclockwise rotation of triangle ABC about the origin of :

(a) 90°

(b) 180°



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Graph a clockwise rotation of WXYZ about the point W:

(a) 90°

(b) 180°

Write the coordinates of $W''X''Y''Z''$:

$W''(\quad)$
 $X''(\quad)$
 $Y''(\quad)$
 $Z''(\quad)$

Rotate the figure 270° about the origin of :

$M(0,0)$ $M'(\quad , \quad)$
 $A(0,3)$ $A'(\quad , \quad)$
 $T(5,4)$ $T'(\quad , \quad)$
 $H(4,0)$ $H'(\quad , \quad)$
