

Know how to do

Reflections:

over the x-axis, y-axis, $y=x$

$x=-1, y=3$

Translations:

$(x+2, y-3)$ and $\langle -4, 6 \rangle$

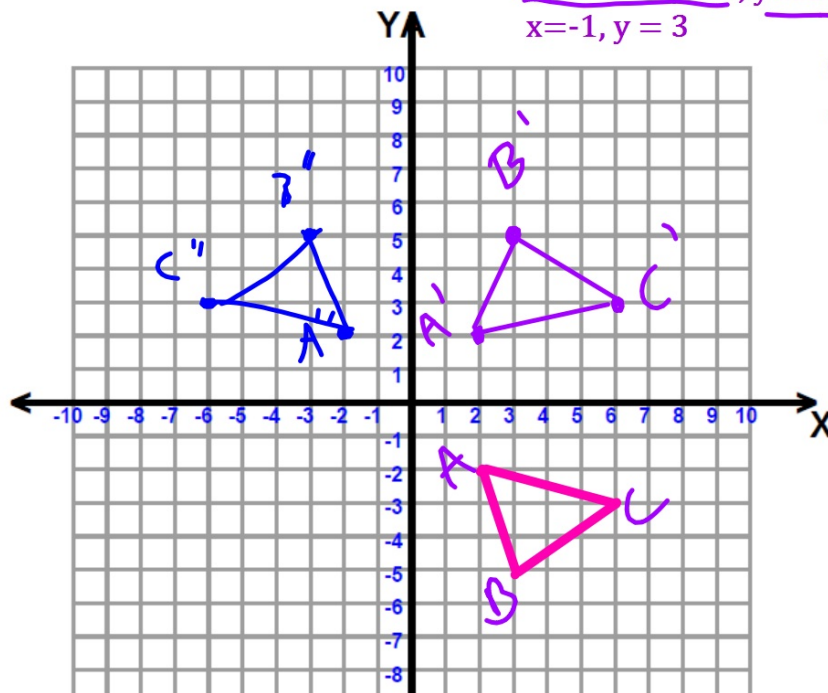
Rotations:

90

180

270

***Also combining several transformations at once!**



$$y = 1x + 0$$

$$y = mx + b$$

$\downarrow$ slope
 $\downarrow$ y-int

~~$$y = 3x + 2$$

$\frac{3}{1}$~~

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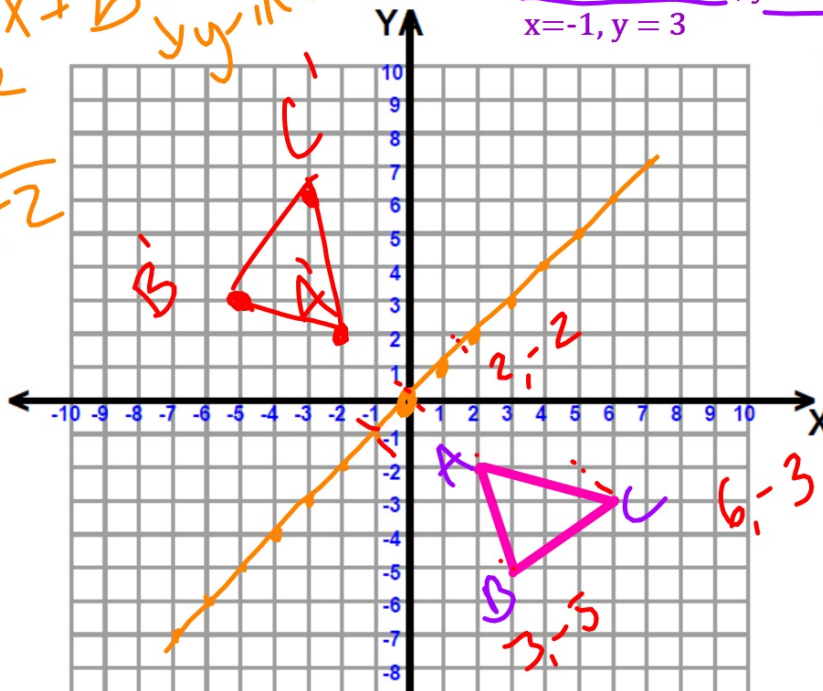
Rotations:

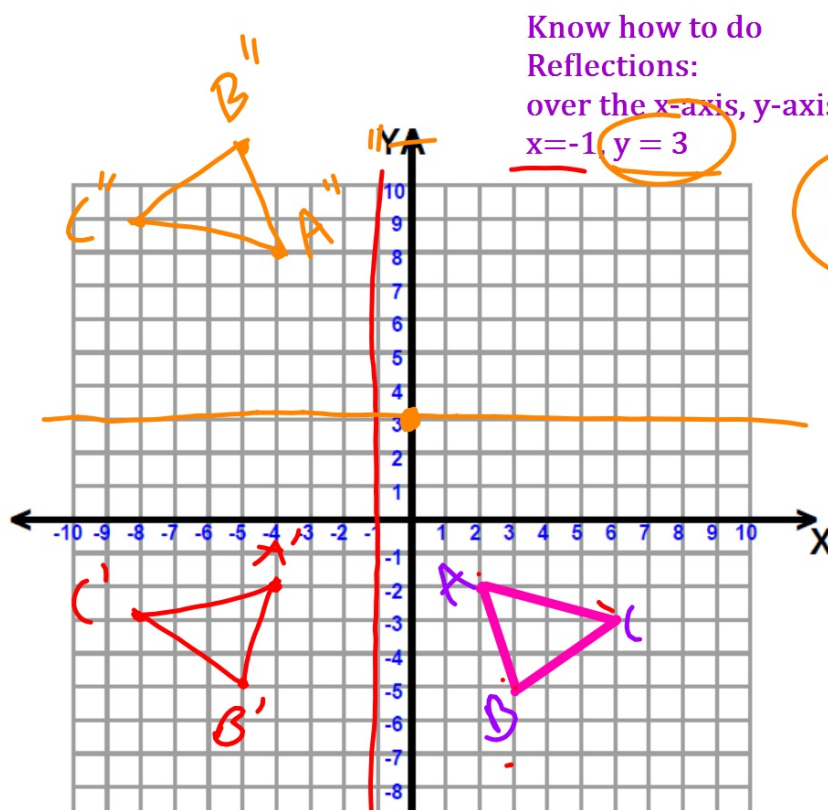
90

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$x-4, y+b$

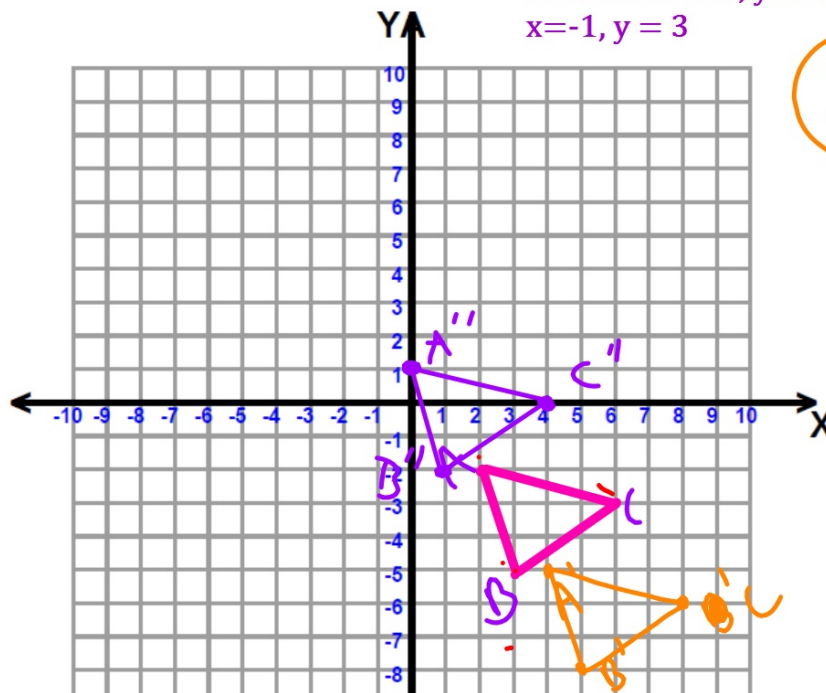
Rotations:

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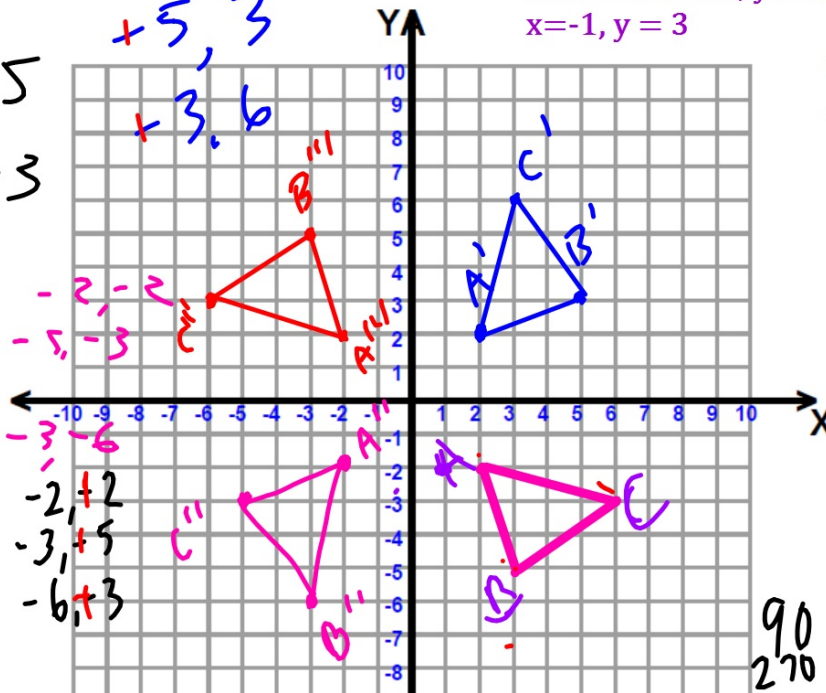
270

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$A \ 2, -2$
 $B \ 3, -5$
 $C \ 6, -3$
 $A' \ 2, 2$
 $B' \ 5, 3$
 $C' \ 3, 6$
 $A'' \ -2, -2$
 $B'' \ -5, -3$
 $C'' \ -3, -6$

$+2, 2$
 $+5, 3$
 $+3, 6$



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 $(x+2, y-3)$ and $\langle -4, 6 \rangle$

C(W)

Rotations:

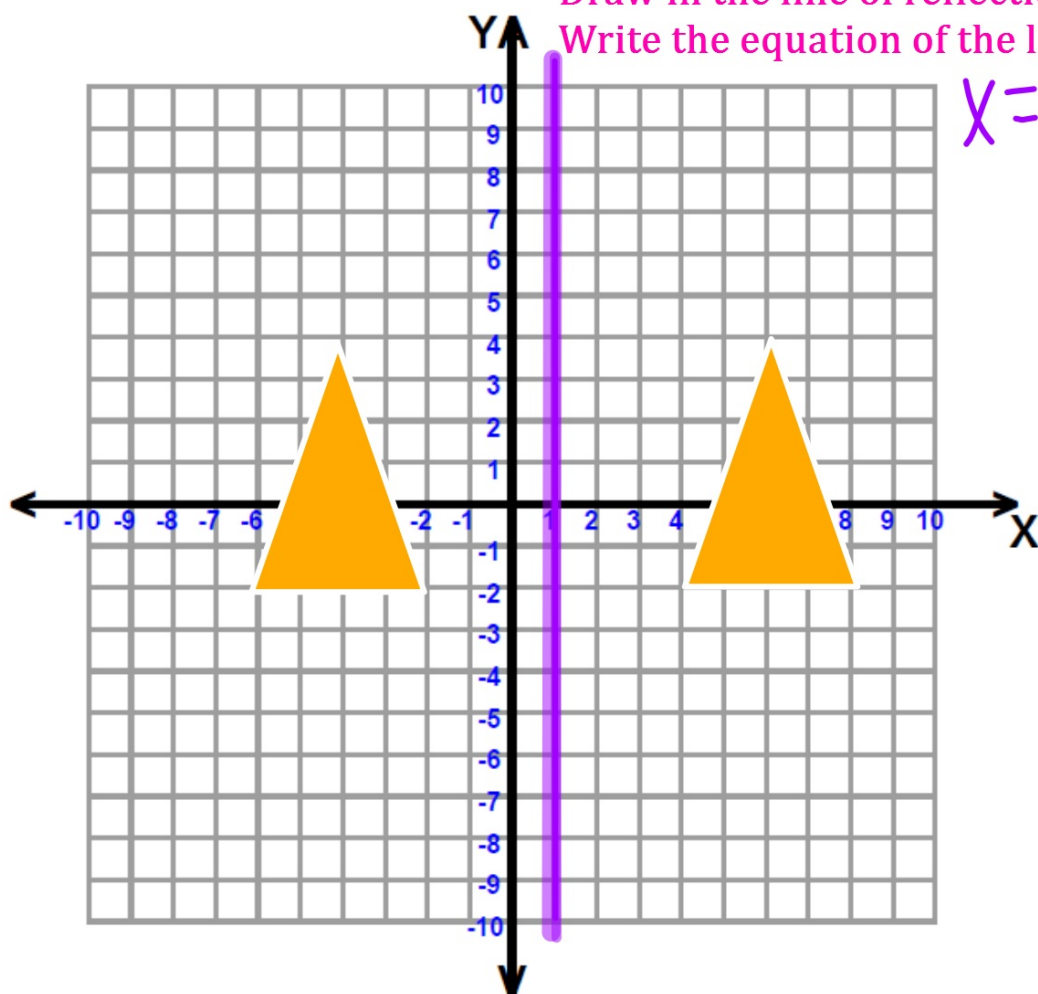
$90^\circ \rightarrow -y, x$
 $180^\circ \rightarrow -x, -y$
 $270^\circ \rightarrow y, -x$

*Also combining several
 transformations at once!

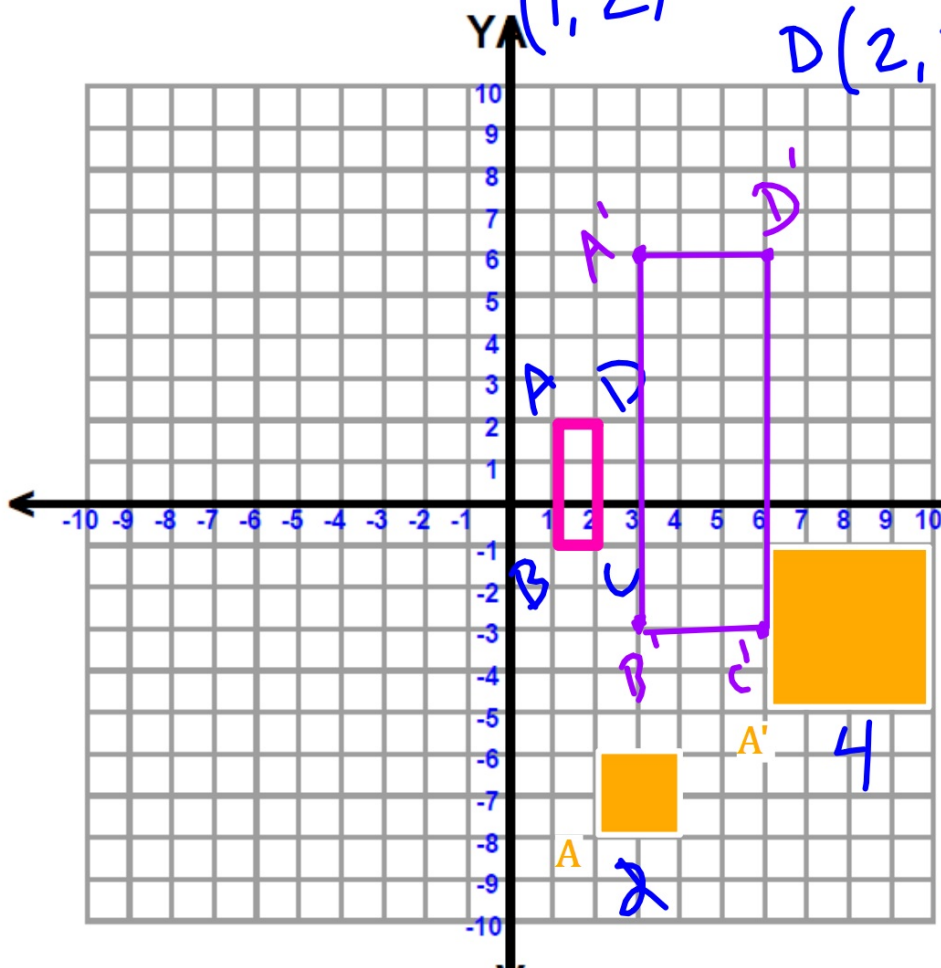
CW Switch
 $90^\circ \rightarrow y, -x$
 $270^\circ \rightarrow -y, x$

Draw in the line of reflection
Write the equation of the line.

$$x = 1$$



$A(1, 2)$ $B(1, -1)$ $C(2, -1)$
 $D(2, 2)$



Dilations:
 Scale factor
 $(k=3)$

multiply
 order
 pairs

$A'(3, 6)$ $B'(3, -3)$
 $C'(6, -3)$ $D'(6, 6)$

$\frac{N 4}{0 2}$
 (2)

Find the scale
 factor
 given two
 figures.

$\underline{\underline{k=2}}$