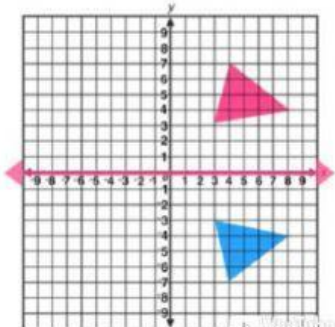
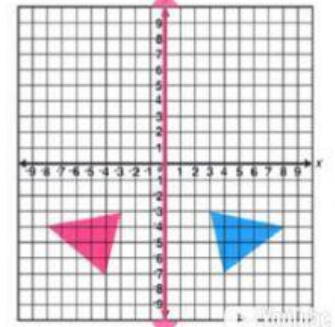
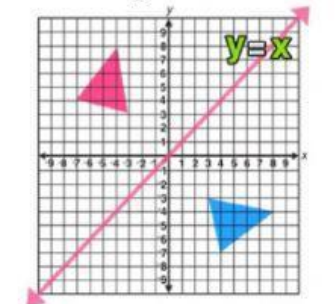
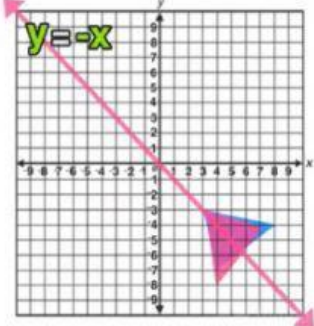


Use the Reflections EdPuzzle notes to answer the following questions.

1. Reflections is a _____ image. It is often the _____ IMAGE of the PREIMAGE.
2. Reflection is NOT a change in _____ or _____.
3. Reflections are performed over lines of _____. These lines divide the coordinate plane into two _____ parts.

Lines of Reflection	Formula/Rule	Example
x-Axis 	$(x,y) \rightarrow (x,-y)$	Find the IMAGE for each point when reflected over the x-axis: $A (2, 4) \rightarrow A'$ $B (-3, -3) \rightarrow B'$ $C (0, -3) \rightarrow C'$
y-Axis 	$(x,y) \rightarrow (-x,y)$	Find the IMAGE for each point when reflected over the y-axis: $A (2, 4) \rightarrow A'$ $B (-3, -3) \rightarrow B'$ $C (0, -3) \rightarrow C'$
$y = x$ 	$(x,y) \rightarrow (y,x)$	Find the IMAGE for each point when reflected over line $y = x$: $A (2, 4) \rightarrow A'$ $B (-3, -3) \rightarrow B'$ $C (0, -3) \rightarrow C'$

	$(x,y) \rightarrow (-y,-x)$	Find the IMAGE for each point when reflected over line $y = -x$: A (2, 4) $\rightarrow$ A' B (-3, -3) $\rightarrow$ B' C (0, -3) $\rightarrow$ C'
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Write the coordinates obtained after the reflections over the following lines of symmetry.

1) K(1, 0), L(4, 1), M(1, 4), N(-2, 3) reflect over x axis:

K' _____ L' _____

M' _____ N' _____

2) E(-8, -8), F(-6, -10), G(-2, -8), H(-6, -6) reflect over y axis:

E' _____ F' _____

G' _____ H' _____

3) T(-3, -1), U(1, -2), V(2, 2), W(-1, 1) reflect over line $y = x$:

T' _____ U' _____

V' _____ W' _____

4) C(6, 1), D(4, 3), E(6, 5), F(10, 1) reflect over line $y = -x$:

C' _____ D' _____

E' _____ F' _____

Determine the which line of symmetry is being reflected over:

