

TOC 61 Unit 4 WWK

| Keyword | Definition | Illustration |
|-----------------|--|---|
| Image | a figure in the coordinate plane that has been changed | A' |
| Preimage | a figure BEFORE a transformation takes place - original! | A |
| Mapping | a series of steps that moves or changes a figure | $(0,0)$ $\langle 4, -3 \rangle$ $(4, -3)$ |
| Transformation | a change made to a figure in the coord. plane | |
| Isometry | a transformation that does NOT change the SIZE of the figure | |
| Similar figures | two figures whose dimensions are proportional | |
| Reflection | a mirror image of a figure over a given line of reflection | |



Oct 11-12:50 PM

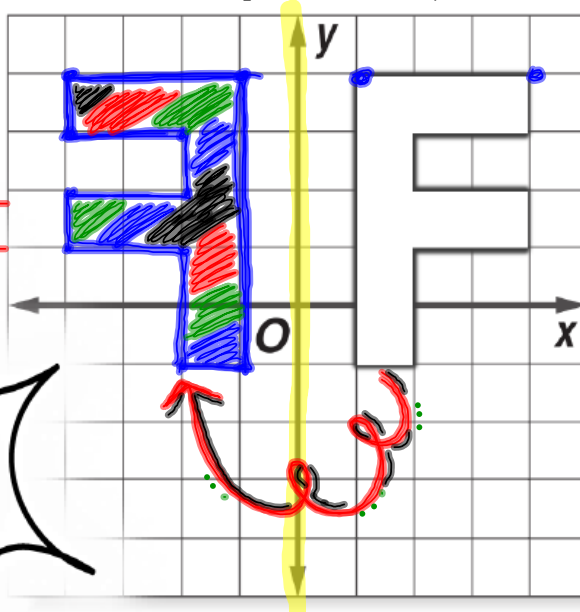
TOC 62 Ut- Reflections

Reflect the figure across the y-axis.

A figure and its reflection are...

CONGRUENT

notation
pre-image F
image F'



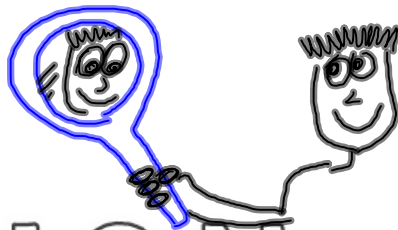
Identify key points in the pre-image



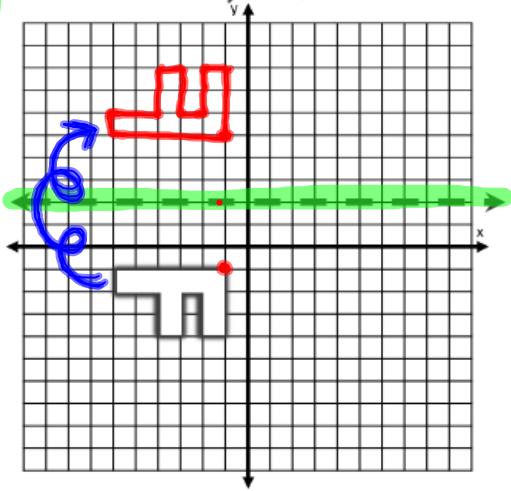
Create the image such that each point maintains its distance from the line of reflection.

Oct 11-12:52 PM

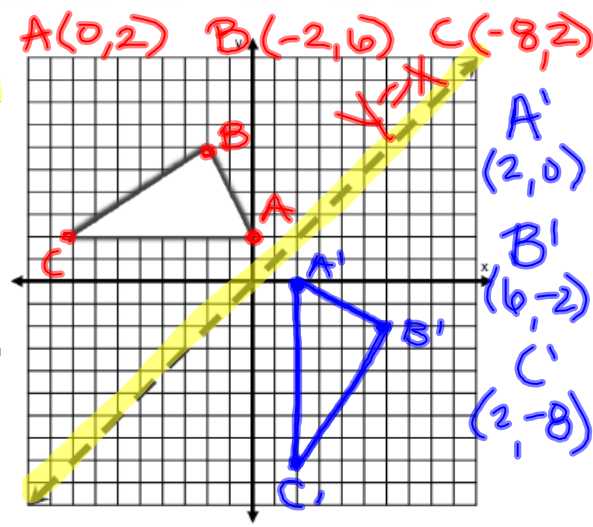
FLIP REFLECTION



Reflect the figure across the line $y = 2$.



Reflect the figure across the line $y = x$.



Oct 11-12:55 PM

Rules:

x-axis

$$(x, y) \longleftrightarrow (x, -y)$$

$$(x, -y)$$

y-axis

$$(x, y) \longleftrightarrow (-x, y)$$

$$(-x, y)$$

$y = x$

$$(x, y) \longleftrightarrow (y, x)$$

$$(y, x)$$

$y = -x$

$$(x, y) \longleftrightarrow (-y, -x)$$

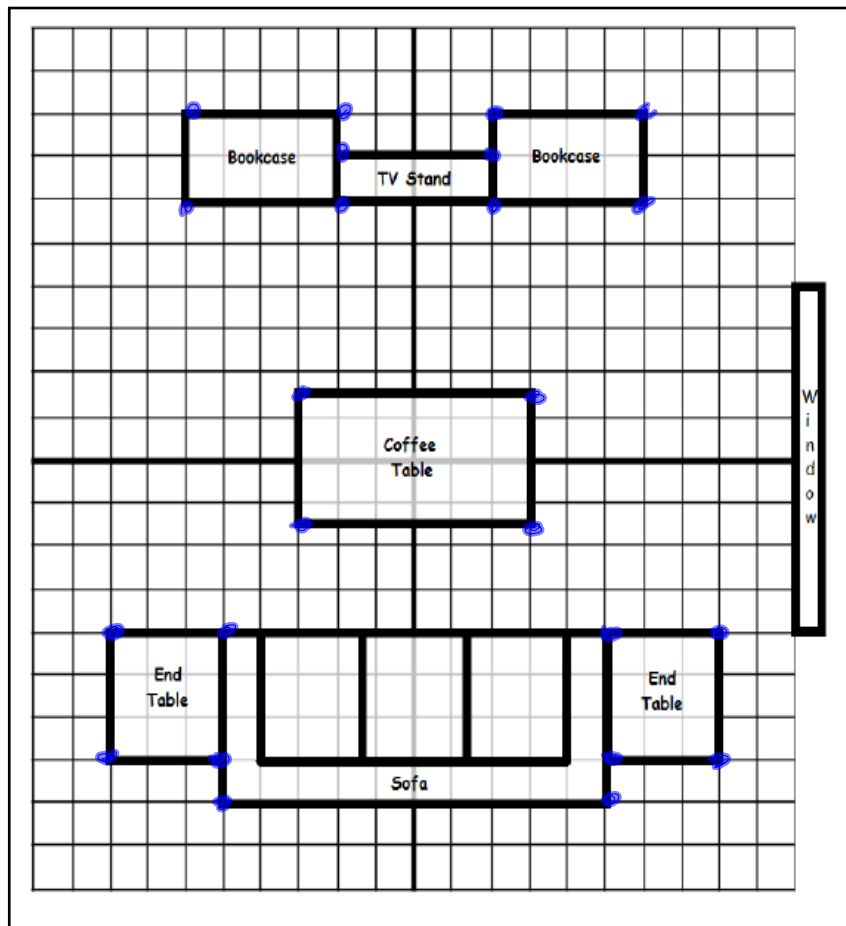
$$(-y, -x)$$

Oct 11-12:55 PM

Before

| Piece of Furniture | Corner 1 Coordinates | Corner 2 Coordinates | Corner 3 Coordinates | Corner 4 Coordinates |
|--------------------|----------------------|----------------------|----------------------|----------------------|
| End Table | $(-5, -4)$ | $(-8, -4)$ | $(-5, -7)$ | $(-8, -7)$ |
| Sofa | $(-5, -4)$ | $(5, -4)$ | $(5, -8)$ | $(-5, -8)$ |
| End Table | $(5, -4)$ | $(8, -4)$ | $(5, -7)$ | $(8, -7)$ |
| Coffee Table | $(-3, 1.5)$ | $(3, 1.5)$ | $(-3, -1.5)$ | $(3, -1.5)$ |
| Bookcase | $(-2, 6)$ | $(-2, 8)$ | $(6, 6)$ | $(6, 8)$ |
| TV Stand | $(-2, 6)$ | $(2, 6)$ | $(-2, 7)$ | $(2, 7)$ |
| Bookcase | $(2, 6)$ | $(2, 8)$ | $(6, 6)$ | $(6, 8)$ |

Oct 11-12:57 PM

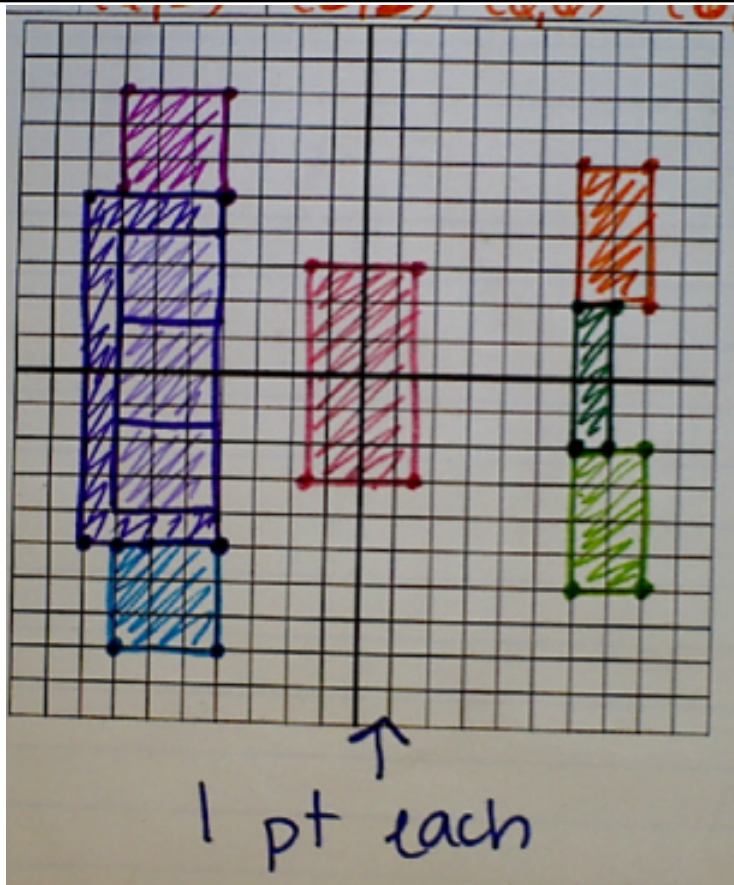


Oct 11-12:57 PM

After $y = x$

| Piece of Furniture | Corner 1 Coordinates | Corner 2 Coordinates | Corner 3 Coordinates | Corner 4 Coordinates |
|--------------------|----------------------|----------------------|----------------------|----------------------|
| End Table | $(-4, -5)$ | $(-4, -8)$ | $(-7, -5)$ | $(-7, -8)$ |
| Sofa | $(-4, -5)$ | $(-8, -5)$ | $(-4, 5)$ | $(-8, 5)$ |
| End Table | $(-4, 5)$ | $(-4, 8)$ | $(-7, 5)$ | $(-7, 8)$ |
| Coffee Table | $(1.5, -3)$ | $(-1.5, -3)$ | $(1.5, 3)$ | $(-1.5, 3)$ |
| Bookcase | $(6, -2)$ | $(8, -2)$ | $(6, 6)$ | $(8, 6)$ |
| TV Stand | $(6, -2)$ | $(7, -2)$ | $(6, 2)$ | $(7, 2)$ |
| Bookcase | $(6, 2)$ | $(8, 2)$ | $(6, 6)$ | $(8, 6)$ |

Oct 16-9:11 AM



Oct 16-9:13 AM

RED DEVIL ADVISORY ACTIVITY SCHEDULE

| Class | Time | Length |
|------------------------|-------------------------|-------------------|
| 1 st Period | 9:00 – 9:50 AM | 50 minutes |
| 2 nd Period | 9:55 -10:45 AM | 50 minutes |
| AM Activity | 10:50 - 11:15 AM | 25 minutes |
| 3 rd Period | 11:20 -12:10 PM | 50 minutes |
| 4 th Period | 12:15 – 1:45 PM | 90 minutes |
| 5 th Period | 1:50 - 2:30 PM | 40 minutes |
| 6 th Period | 2:35 - 3:15 PM | 40 minutes |
| 7 th Period | 3:20 - 4:00 PM | 40 minutes |

4th Lunch
12:25-12:47

Oct 12-9:35 AM

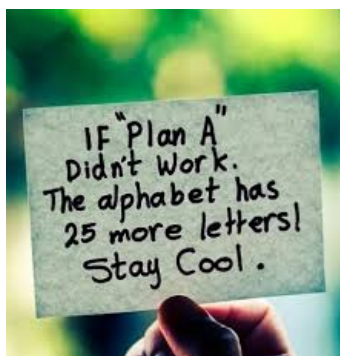
.....
Life is 10% what happens to us and 90% how we react to it.
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-Dennis P. Kieme

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Oct 12-10:46 AM