Geometry

Name

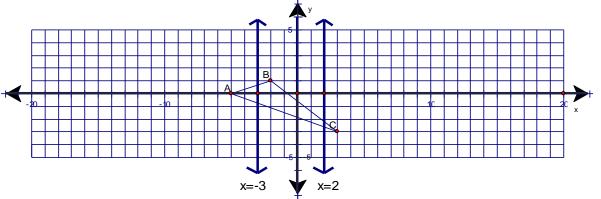
I will be able to:

Hour_____

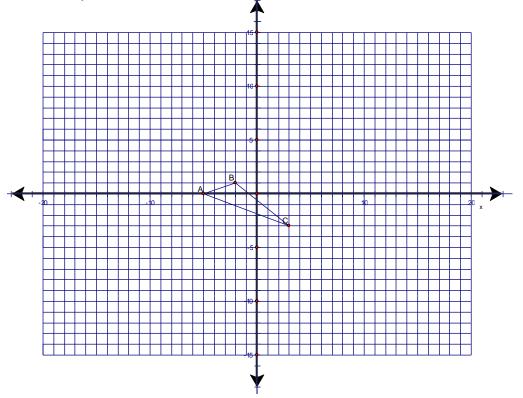


4.4 Exploration

- 1. Using a colored pencil, reflect $\triangle ABC$ over x = -3 and label the points. Draw $\triangle A'B'C'$.
- 2. Reflect $\Delta A'B'C'$ over x = 2. Draw $\Delta A''B''C''$.



- 3. What transformation occurred that would map $\triangle ABC$ to $\triangle A"B"C"?$
- 4. Draw $\overline{AA''}$, $\overline{BB''}$, and $\overline{CC''}$.
- 5. How far did ΔABC move to become ΔA"B"C"?
- 1. Using a colored pencil, reflect $\triangle ABC$ over y = 3 and label the points. Draw $\triangle A'B'C'$.
- 2. Reflect $\Delta A'B'C'$ over y = -2. Draw $\Delta A''B''C''$. †



- 3. What transformation occurred that would map $\triangle ABC$ to $\triangle A"B"C"?$
- 4. Draw $\overline{AA''}$, $\overline{BB''}$, and $\overline{CC''}$.
- 5. How far did ΔABC move to become ΔA"B"C"?

DO YOU NOTICE ANYTHING?

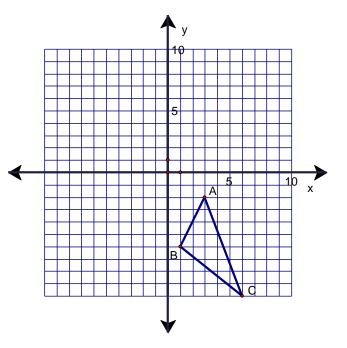
If the lines are parallel, a reflection followed by a reflection is the same as a

If the lines of reflection are parallel, how does the distance between the lines of reflection compare to ΔABC to $\Delta A"B"C"$?

- 1. Reflection $\triangle ABC$ over the line y = 0. Draw $\triangle A'B'C'$.
- 2. Reflect $\Delta A'B'C'$ over y = x. Draw $\Delta A''B''C''$.

Α	(3, -2)	В	(1, -6)	С	(6, -10)
A'		B'		C'	
A''		B"		C"	

3. What transformation occurred that would map ΔABC to ΔA "B"C"?



- 1. Reflection $\triangle ABC$ over the line y = x. Draw $\triangle A'B'C'$.
- 2. Reflect $\Delta A'B'C'$ over y = 0. Draw $\Delta A''B''C''$.

А	(3, -2)	В	(1, -6)	С	(6, -10)
A'		B'		Ċ'	
A''		B"		C"	

3. What transformation occurred that would map ΔABC to ΔA "B"C"?

