

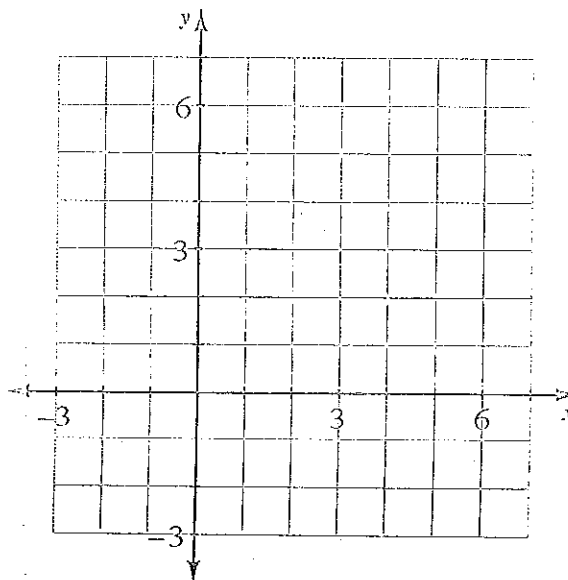
Reflections

1-50. On the Lesson 1.2.1 Resource Page provided by your teacher, use your **visualization** skills to imagine the reflection of each shape across the given line of reflection. Then draw the reflection. Check your work by folding the paper along the line of reflection.

1-52. On the axes at right, graph the equations $y = x^2 + 3$ and $y = x$.

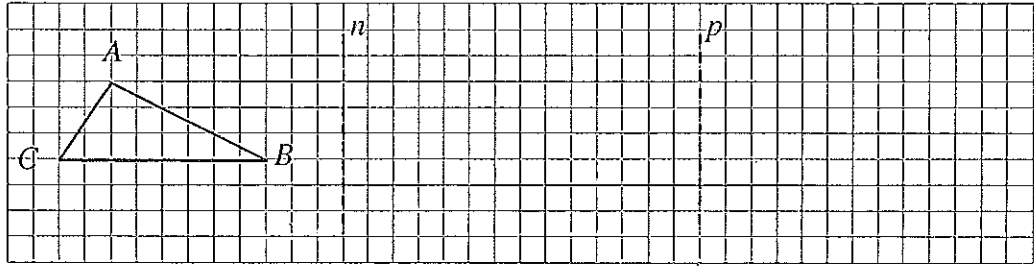
Reflect the parabola over the line $y=x$.

What do you observe? What happens to the x - and y - values of the original parabola?



I-59.

What happens when $\triangle ABC$ is reflected across line n to form $\triangle A'B'C'$ and then $\triangle A'B'C'$ is reflected across line p to form $\triangle A''B''C''$? First visualize the reflections and then test your idea of the result by **drawing** both reflections. Then answer the rest of the questions in the student text.



a. Examine the results from above. Compare $\triangle ABC$ with the final result, $\triangle A''B''C''$. What single motion would change $\triangle ABC$ to $\triangle A''B''C''$? _____

b. The words **transformation** and **translation** sound alike and can easily be confused. Discuss with your table what these words mean and how they are related to each other. **Come up with a slogan/rhyme to help distinguish the difference between these 2 words.**

I-60.

a. First visualize the result when $\triangle EFG$ is reflected over v to form $\triangle E'F'G'$, and then $\triangle E'F'G'$ is reflected over w to form $\triangle E''F''G''$. Then draw the resulting reflections on the resource page. Is the final image a translation of the original triangle? If not, describe the result. Then answer question (b) as stated in the text.

