

Assignment 8

Name _____

Class _____

Date _____

Show all work on **graph paper!**

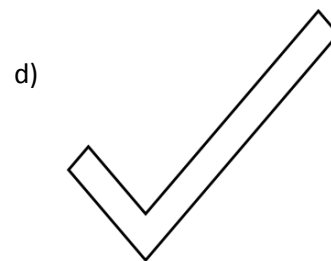
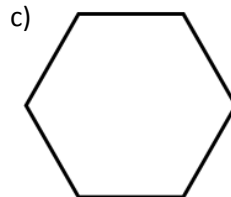
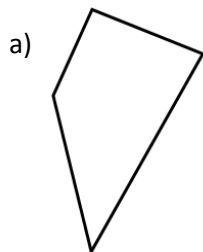
Review problems:

1. Evaluate for $x = -4$, $y = 7$

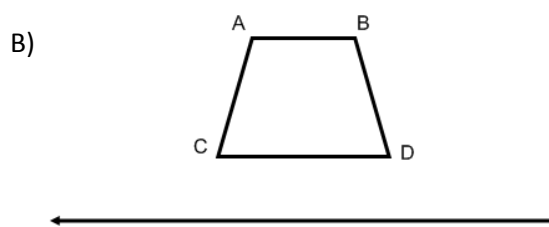
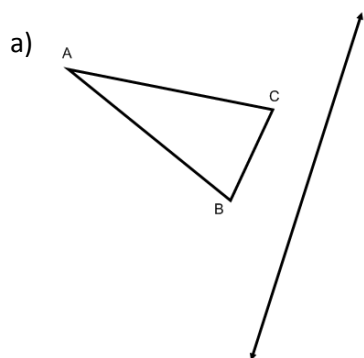
$$x^2 - 2y + 3\left(\frac{3}{4}x + y\right)$$

2. John is planning what his garden will look like on paper. On paper, the length of the garden is 4 inches and the width is $2\frac{3}{4}$ inches. In real life, he wants the length of his garden to be 18 feet. How many feet should the width of the garden be?

Lines of symmetry: Draw ALL lines of symmetry in the figures below. If there are no lines of symmetry, write NONE.



3. Reflect the following figures over the lines of reflection. Be sure to label the images correctly.



6. Follow the directions carefully for the questions below. **MUST BE ON GRAPH PAPER!!!**

a) Plot the following points on a pair of coordinate axes:

F: (-1, 3)

G: (0, 7)

H: (-3, 7)

b) Now reflect the figure FGH over the y-axis. Label the image F'G'H'.

c) Explain how you can predict the coordinates of F'G'H' WITHOUT performing the actual transformation.