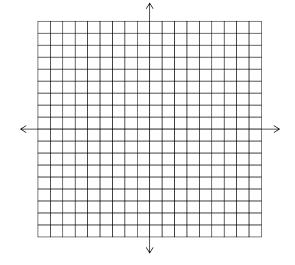
Unit 11 Study Guide

Transformations

Use for 1 & 2: On the graph at right, plot, label, and connect in order the following points:

$$A(4, 1)$$
 $B(1, 3)$ $C(5, 2)$

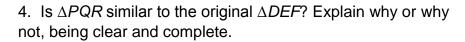
- 1.) Reflect $\triangle ABC$ across the *x*-axis. Label the new triangle $\triangle A'B'C'$.
- 2.) Are $\triangle ABC$ and $\triangle A'B'C'$ similar? Explain completely, justifying your answer.

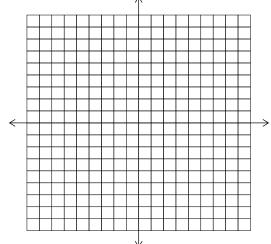


Use for 3 & 4: On the graph at right, plot, label, and connect in order the following points:

$$D(0,-2)$$
 $E(4,-2)$ $F(1,-4)$

3. Multiply each coordinate of ΔDEF by -1.5, and plot the new triangle, labeling it ΔPQR .

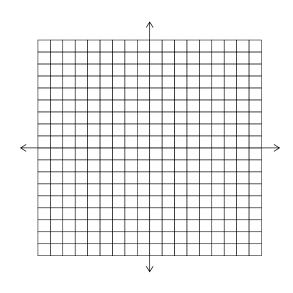




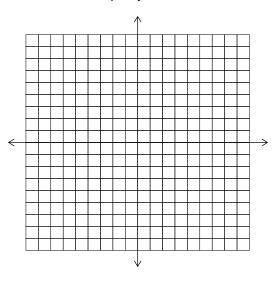
5. If you translate the point (-3, 5) down 10 units and left 5 units, what would the new coordinates be?

Review

6. Graph
$$y = -\frac{4}{3}x - 2$$



7. Graph
$$y = -2x - 4$$



8. Solve for r:
$$3h - 2r - 4(h + 2r) = 5r - 4r + 2h$$

9. Solve for x:
$$\frac{5.4}{4x} = \frac{5}{3}$$

10. Solve for x:
$$\frac{3x}{4} + \frac{x}{5} + \frac{1}{5} = 3x + 2$$

11. The two figures at right are similar. Solve for both x, y and z. Show all work!

