NAME _____ DATE _____ PERIOD _____

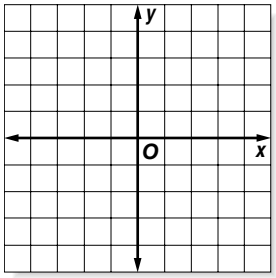
Figures on the Coordinate Plane

G.10.6.2 Plot points that form the *vertices* of a geometric figure and draw, identify and classify the figure.

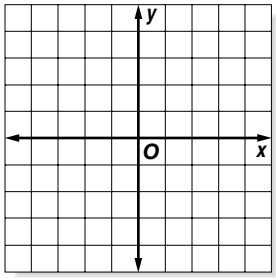
EXERCISES

Graph and label each point. Then connect the points to form a geometric figure. Identify each figure.

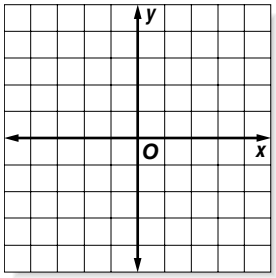
1. $A(-2, -2)$, $B(-1, 3)$, $C(4, -3)$



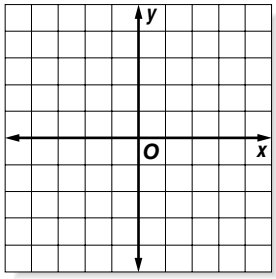
2. $D(2, 4)$, $E(4, 2)$, $F(0, -2)$, $G(-2, 0)$



3. $H(-1, 3)$, $I(1, 3)$, $J(2, 2)$, $K(2, 0)$, $L(1, -1)$, $M(-1, -1)$, $N(-2, 0)$, $O(-2, 2)$

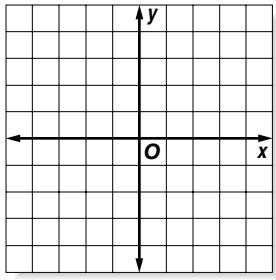


4. $P(-4, 4)$, $Q(4, 4)$, $R(4, -1)$, $S(0, -4)$, $T(-4, -1)$



5. Draw a square on the coordinate plane at the right. Write the ordered pair that names each vertex.

6. Draw a hexagon on the coordinate plane at the right. Write the ordered pair that names each vertex.



For Exercises 7–11, use the coordinate plane at the right.

7. Draw a rectangle with vertices $T(-2, 5)$, $U(5, 5)$, $V(5, 2)$, and $W(-2, 2)$.

8. Find the length and width of rectangle $TUVW$.

9. Find the perimeter of rectangle $TUVW$.

10. Draw a triangle with vertices $X(3, 1)$, $Y(3, -3)$, and $Z(-1, 1)$.

11. Find the length of base XY.