

Practice 1-6**The Coordinate Plane**

Graph each point in the coordinate plane.

1. $A(-2, 5)$ 2. $B(5, -2)$ 3. $C(0, 6)$ 4. $D(-4, 0)$ 5. $E(-4, -2)$

Find the distance between the points to the nearest tenth.

6. $L(-4, 11), M(-3, 4)$ 7. $N(1, 0), P(3, 8)$
8. $Q(10, 10), R(10, -2)$ 9. $S(0, 5), T(0, -3)$
10. $U(11, 0), V(-1, 0)$ 11. $W(2, 7), X(1, 2)$

Find the coordinates of the midpoint of each segment. The coordinates of the endpoints are given.

12. $A(6, 7), B(4, 3)$ 13. $C(-1, 5), D(2, -3)$
14. $E(14, -2), F(7, -8)$ 15. $O(0, 0), G(-5, 12)$
16. $H(2.8, 1.1), I(-3.4, 5.7)$ 17. $J(2\frac{1}{2}, -\frac{1}{4}), K(3\frac{1}{4}, -1)$

18. The midpoint of \overline{AB} is $(1, 2)$. The coordinates of A are $(-3, 6)$. Find the coordinates of B .
19. The midpoint of \overline{CD} is $(4, 11)$. The coordinates of D are $(4, 12)$. Find the coordinates of C .
20. The midpoint of \overline{EF} is $(-3, 7)$. The coordinates of E are $(-3, 10)$. Find the coordinates of F .
21. Graph the points $A(2, 1), B(2, -5), C(-4, -5)$, and $D(-4, 1)$. Draw the segments connecting A, B, C , and D in order. Are the lengths of the sides of $ABCD$ the same? Explain.
22. A crow flies to a point that is 1 mile east and 20 miles south of its starting point. How far does the crow fly?

Quadrilateral $PQSR$ has coordinates as follows:

$P(0, 0), Q(-1, 4), R(8, 2)$, and $S(7, 6)$.

23. Graph quadrilateral $PQSR$.
24. What is the perimeter of $PQSR$?
25. What is the midpoint of \overline{QR} ?