Name _____ Class _____ Date _____

Practice 1-8

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 $\overline{QR}$.

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 $\overline{QR}$?

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