Green Textbook p47 #1-8, 23, 26, 27, 30

 Vocabulary The __? is the side of a right triangle that is directly across from the right angle. (hypotenuse or leg)

Find the coordinates of the midpoint of each segment.

- 2. \overline{AB} with endpoints A(4, -6) and B(-4, 2)
- 3. \overline{CD} with endpoints C(0, -8) and D(3, 0)
- **4.** *M* is the midpoint of \overline{LN} . *L* has coordinates (-3, -1), and *M* has coordinates (0, 1). Find the coordinates of *N*.
- 5. B is the midpoint of \overline{AC} . A has coordinates (-3, 4), and B has coordinates $(-1\frac{1}{2}, 1)$. Find the coordinates of C.

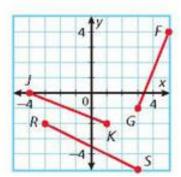
Multi-Step Find the length of the given segments and determine if they are congruent.

6.
$$JK$$
 and \overline{FG}

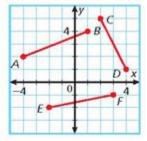
7.
$$\overline{JK}$$
 and \overline{RS}

Use the Distance Formula and the Pythagorean Theorem to find the distance, to the nearest tenth, between each pair of points.

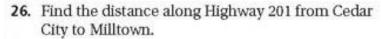
8.
$$A(1, -2)$$
 and $B(-4, -4)$

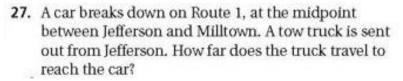


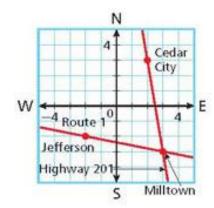
23. Use the Pythagorean Theorem to find the distance from A to E. Round to the nearest hundredth.



On the map, each square of the grid represents 1 square mile. Find each distance to the nearest tenth of a mile.







The coordinates of the vertices of $\triangle ABC$ are A(1, 4), B(-2, -1), and C(-3, -2).

30. Find the perimeter of $\triangle ABC$ to the nearest tenth.