An isosceles right triangle has a leg of length 12. What is the length of the its hypotenuse?

What is the distance between A and B on the coordinate plane?

\[ A(-11, 5) \quad B(1, -7) \]

What is the length of \( \overline{CD} \)?

Solve for the missing side length.
Carol starts at Salem High School. She walks 12 miles north. Then, she walks 5 miles east. About how far is she from Salem High?

What is the distance between E and F on the coordinate plane?

\[ E(16, 0) \quad F(11, -12) \]

Solve for \( x \).

\[(3 - 8)^2 + (14 - 2)^2 = x^2\]

What is the length of the diagonal of the rectangle?
Betty starts at Maddie's. She walks 2 miles north. Then, she walks 3 miles west. Then, she walks 1 mile south. Then, she walks 7 miles west. Then, she walks 8 miles north. Then, she walks 2 miles west. How far is she from Maddie's?

A right triangle has a leg that is 9 meters long and another leg that is 12 meters long. How long is the hypotenuse?

Find GH.

What is the distance between P and Q on the coordinate plane?

\[ P(103, 45) \quad Q(115, 54) \]
What is the distance between M and N on the coordinate plane?

\[ M(-12, 4) \quad N(3, 10) \]

Draw a line segment connecting the start and the end. What is the length of this segment?

The dimensions of a rectangular desktop are 1 1/4 feet by 1/2 foot. What is the length of the diagonal in inches?

One of our circle theorems says that a tangent and a radius of a circle are perpendicular. Use this theorem to label the picture. Then find x.