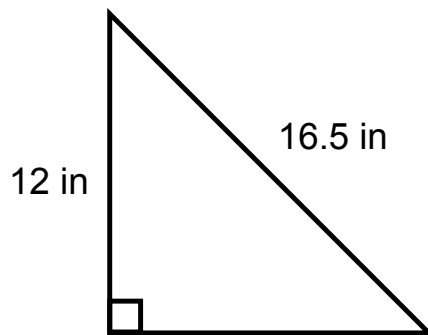


Warm Up

3/31

What is the perimeter of the triangle below?




REMEMBER: *Perimeter is the length around an object.*

Measurement Vocab:

Perimeter - Length around a shape

Rectangle: $P = w + w + L + L$
 $= 2L + 2w$



Other shapes: Just add up the side lengths

Circumference - Length around a circle
(really the "perimeter" of a circle)

Radical Form

$\sqrt{\quad}$ radical sign

Radical form is more precise than if you took the square root of the # and rounded.

$$\sqrt{150} = 12.2 \quad (\text{rounded to tenths place})$$

$$(\sqrt{150})^2 = 150$$

$$(12.2)^2 = 148.8$$

} Difference because we rounded

Leaving an answer in Radical Form is the most precise answer.

BUT... in real life we need to round.

Perimeters of Triangles Graphed in a Coordinate Plane

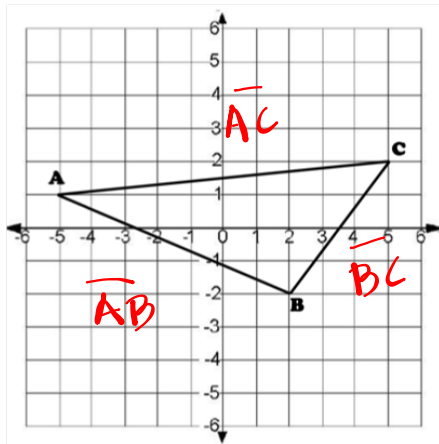
Show all your work/thinking when answering the following questions.

Using what you know about the Pythagorean Theorem:

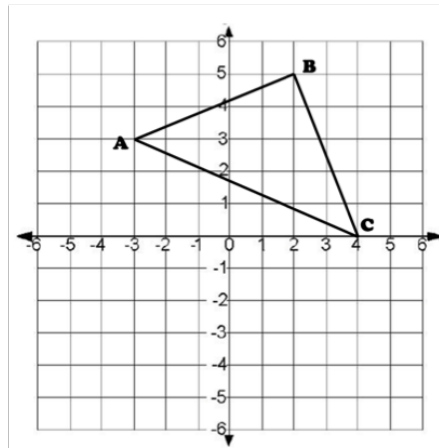
1. find the perimeter of each of the triangles ($\triangle ABC$)
2. determine if the triangle is a **right triangle or not**
3. if $\angle B \neq 90^\circ$ is the angle **obtuse** or **acute**?

(use radical form)

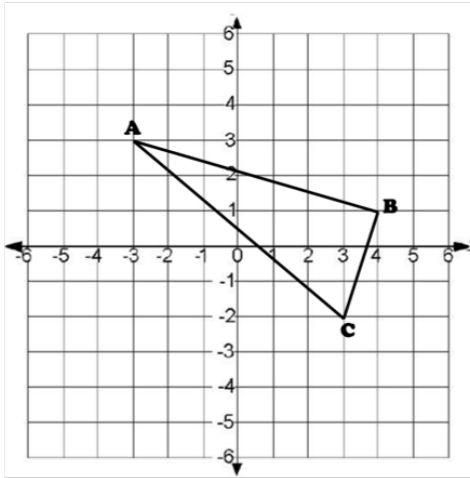
1.



2.



3.



4. The coordinates of each of the vertices of a new triangle are:

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

Homework

Finish classwork