

# Lesson 3.3: Length of Segments

## Targets:

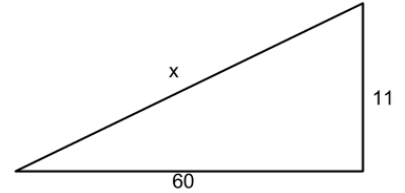
1. I understand how to find the length of a segment on the coordinate plane.
2. I understand how to find the area and perimeter of shapes on the coordinate plane.

## Warm Up

Find the measure of  $x$ . All measurements are in centimeters.

$x =$  \_\_\_\_\_

The formula I used is called \_\_\_\_\_

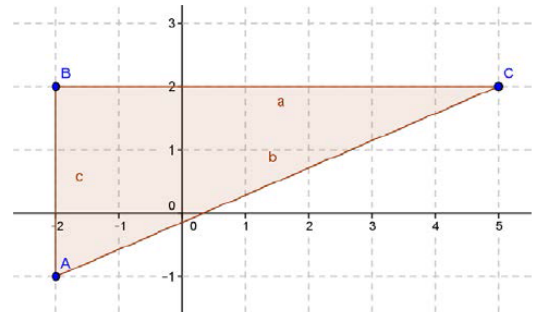


## Practice 1

Find the length of segment  $AC$ .

Segment  $AC =$  \_\_\_\_\_

The formula I used is called \_\_\_\_\_



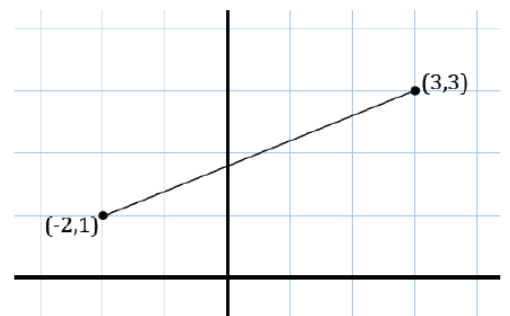
## Vocab

There is only one new term for this lesson: **Distance Formula**

1. What is the distance formula?
2. What is it used for?
3. Where does the formula come from?

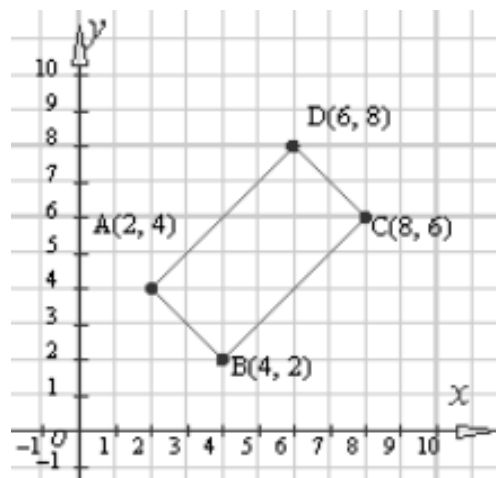
## Practice 2

Find the measure of the segment with points  $(-2, 1)$  and  $(3, 3)$ .



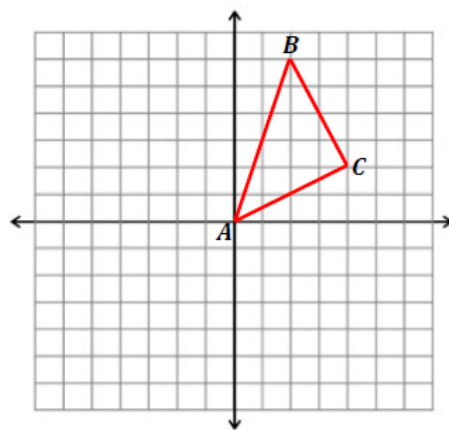
### Practice 3

1. What is the measure of segment AD?
2. What is the measure of segment DC?
3. What is the area of rectangle ABCD?
4. What is the perimeter of rectangle ABCD?



### Practice 4

What is the perimeter of  $\triangle ABC$ ?



### Exit Ticket

1. What is the length of segment DC?
2. What is the perimeter of rectangle ABCD?
3. What is the area of rectangle ABCD?

