

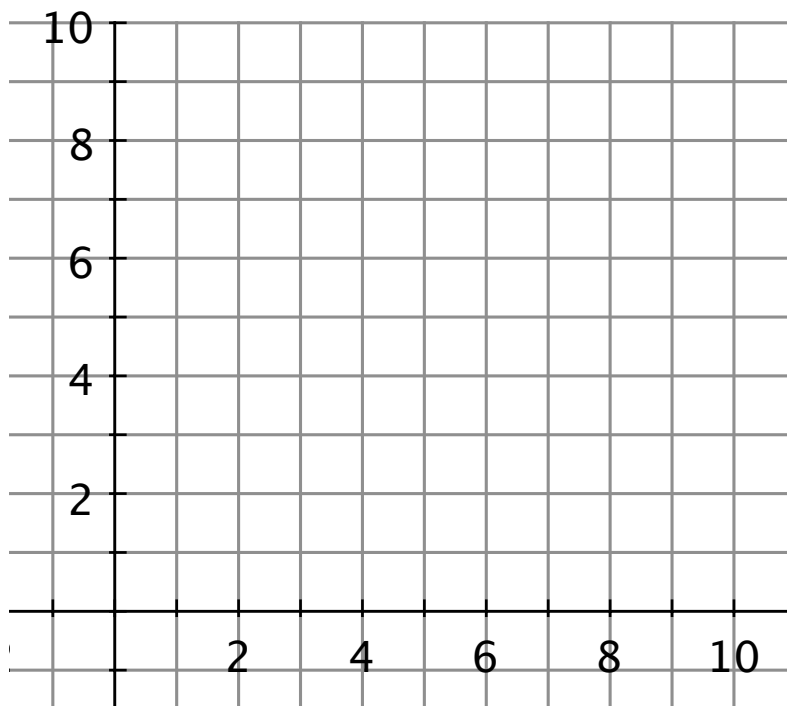
# Model Drawing Problem

## Distance and Midpoints 2

### Goals

I can create and use a drawing to model and solve a problem.

The  $x$  and  $y$  coordinates of all of the points in this problem are integers. Points  $A$ ,  $B$ , and  $C$  are not collinear. Point  $A$  is  $\sqrt{13}$  units away from both points  $B$  and  $C$ . Further, the  $x$ -coordinate of both points  $B$  and  $C$  is 6. Point  $A$  is located at  $(3,4)$ . Point  $C$ 's  $y$ -coordinate is greater than point  $B$ 's  $y$ -coordinate. Find the locations of points  $B$  and  $C$ .



### Step-By-Step

1. Read the problem completely.
2. Draw a model. Label the model with the given information. Remember "Recipe Reading". (4 points)
3. Define a base unit. (2 points)
4. Place your "?". (2 points)
5. Show your computation. (4 points)
6. Write a complete sentence that answers the question. (2 points)