

Problem 3.4
Polygons on the Coordinate Plane

Name: _____

Review:

A polygon is: _____

Sometimes it is helpful to describe polygons and other shapes by naming
_____ of key points

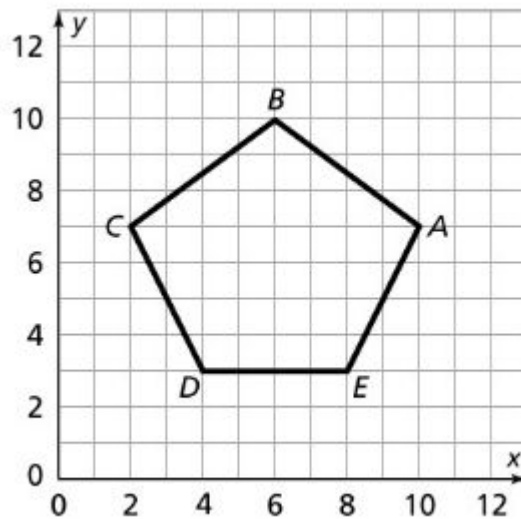
Points on a coordinate grid are labeled with a pair of points called: _____

The first number, or _____, tells the _____

Distance for the y-axis. The second or _____, tells
the vertical distance from the x-axis.

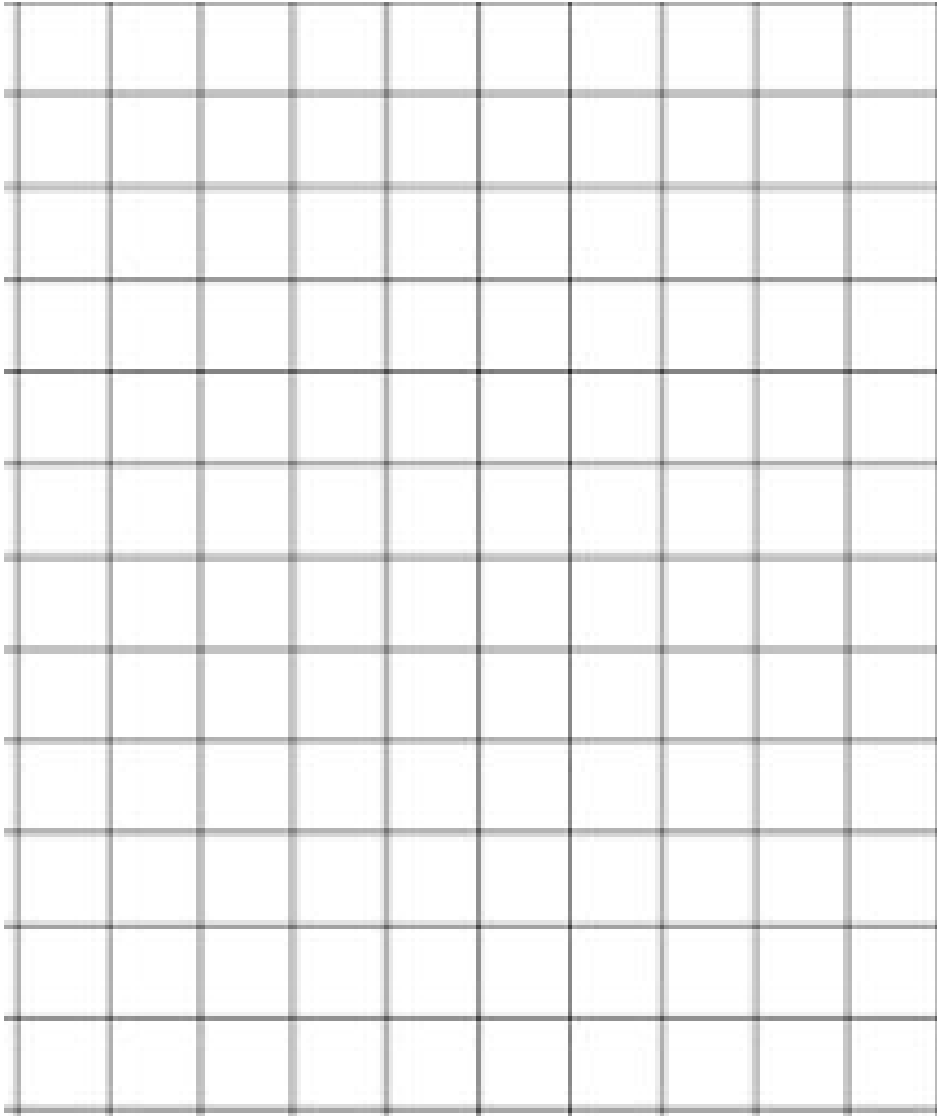
EXAMPLE:

Vertex A on the pentagon below has coordinates (10,7)



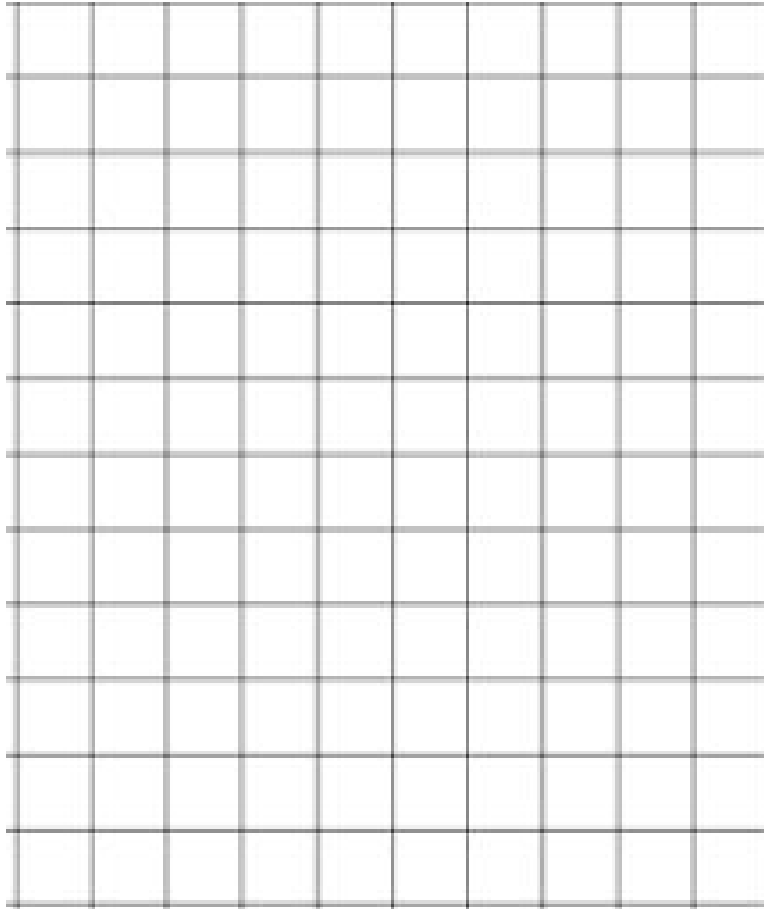
What are the coordinates of vertices B, C, D and E?

Another example: What if we moved a polygon to a different location on the grid? What will change and what will not change?



What if we were given some coordinates of a figure, but not all of them.

Let's use the information which is given to find the remaining coordinates.



The remaining coordinates:

Let's find the area of this figure:

Use strategies we have used to find areas of triangles and rectangles.

