Math 9 – Unit 6: Coordinate Geometry

Lesson #1: The Coordinate Plane

Learning Goal: We are learning how to use the coordinate grid system.

In this chapter and the next, we will learn a lot of new vocabulary. You need to become intimate with these

words, so let's first define them, then draw/label them!



-it is a grid, made up of two number lines, cross at their

Quadrants

- the 4 corners of the coordinate plane

- the horizontal # 1.ne

- the vertical # line

x-coordinate
- the value/sport on the x-axis - this is just a number

y-coordinate

- the value/sput on the y-axis

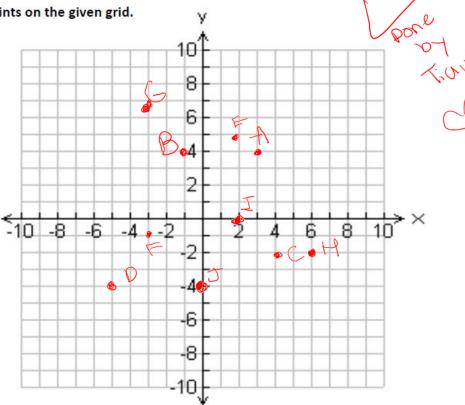
Ordered Pair 2 things -> 2 things in order

- the x and y coordinate paired together written as (X, Y) ex: (2, -3)

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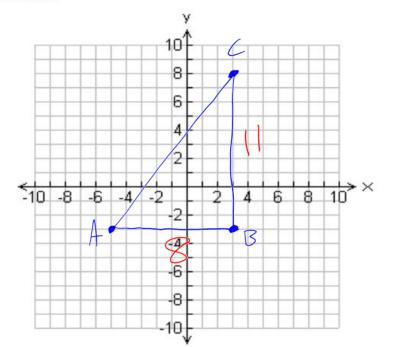




Example 2: Calculate the area of a triangle with vertices at A(-5,-3), B(3,-3), and C(3,8)

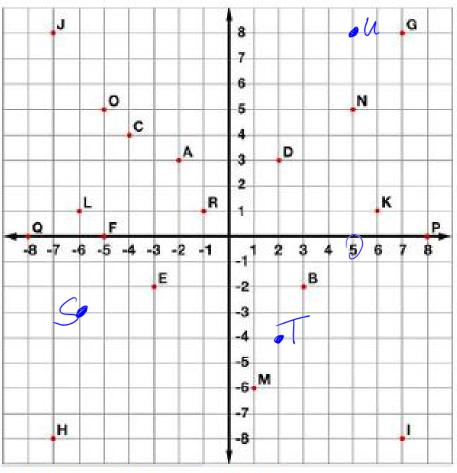
Step 1: Plot the points and connect the points to form a triangle

Step 2: Find the length of the base and height



Step 3: Calculate the area

$$A = \frac{bh}{2} = \frac{8 \times 11}{2} = \frac{99u^2}{2}$$
units



Tell what point is located at each ordered pair.

Write the ordered pair for each given point.

9. **P**
$$(8,0)$$

Plot the following points on the coordinate grid.

Success Criteria:

- I can define the important key terms that are used in the coordinate grid system
- I can tell the difference between the "x" and "y" coordinates in an ordered pair
- I can find an ordered pair on a coordinate grid