Warm Up!

1.) Write in agenda book

2.) Lydia can walk 2 miles in 45 minutes. At that rate, how far can she walk in 135 minutes?

6 miles

Mar 1-8:12 AM

Chapter 12

Lesson 12.1: Graphing on the Coordinate Plane

Learning Target: I can locate and name points in the coordinate plane.

Feb 28-10:39 AM

A coordinate plane is formed by two number lines that __intersect__ at right angles. The point of intersection is __0__ on each number line.
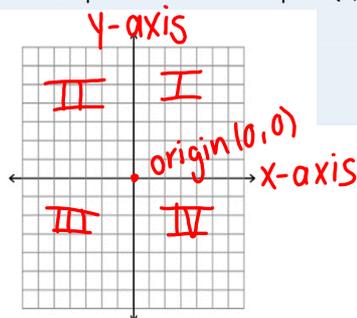
The horizontal axis is called the __x-axis__.

The vertical axis is called the __y-axis__.

The point where the axes intersect is called the __origin__ this is at the ordered pair __(0,0)__

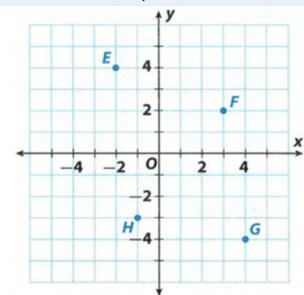The coordinate plane is divided into four __quadrants__.

An __ordered pair__ is a pair of numbers that gives the location of a point on a coordinate plane (x, y)

y-axis

II   I

origin (0,0)   x-axis

III   IV

Feb 28-10:41 AM

Example 1: Using the graph below, identify the coordinates of each point and name the quadrant it is in.

G __(4,-4) IV__
E __(-2,4) II__
F __(3,2) I__
H __(-1,-3) III__

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Example 2: If both coordinates of a point are negative in which quadrant is the point located?

III

Example 3: <u>Describe</u> the coordinates of all points in Quadrant I.

They are all positive.

Example 4: <u>Explain</u> why (-3, 5) represents a different location than (3,5).

Feb 28-10:44 AM

Example 5: Graph and label each point on the coordinate plane.

P (-4, 2)
Q (3, 2.5)
R (-4.5, -5)
S (4, -5)
T (-2.5, 0)

Feb 28-10:45 AM

Example 6: The graph shows the location of a city. It also shows the location of Gary's and Jen's houses. The scale on each axis represents miles.

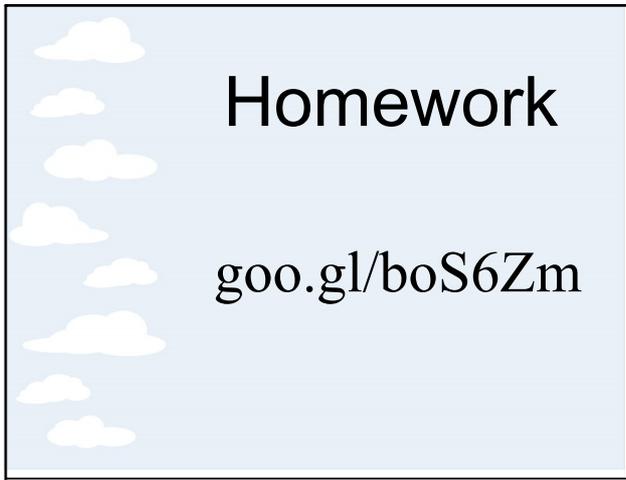a.) Use the scale to describe Gary's location relative to the city.

25 mi W and 15 mi N

b.) Describe the location of Jen's house relative to Gary's house.

30 mi East

Feb 28-10:47 AM

goo.gl/boS6Zm

Mar 1-8:13 AM

2

Homework

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Feb 24-7:49 AM