JEOPARDY!

Template by Eric Curts
ericcurts@gmail.com - www.ericcurts.com
twitter.com/ericcurts - plus.google.com/+EricCurts1

JEOPARDY BOARD

3.1	3.2	3.3-3.4	3.5	4.1
$100	$100	$100	$100	$100
$200	$200	$200	$200	$200
$300	$300	$300	$300	$300
$400	$400	$400	$400	$400
$500	$500	$500	$500	$500

What are the coordinates of point A graphed below?
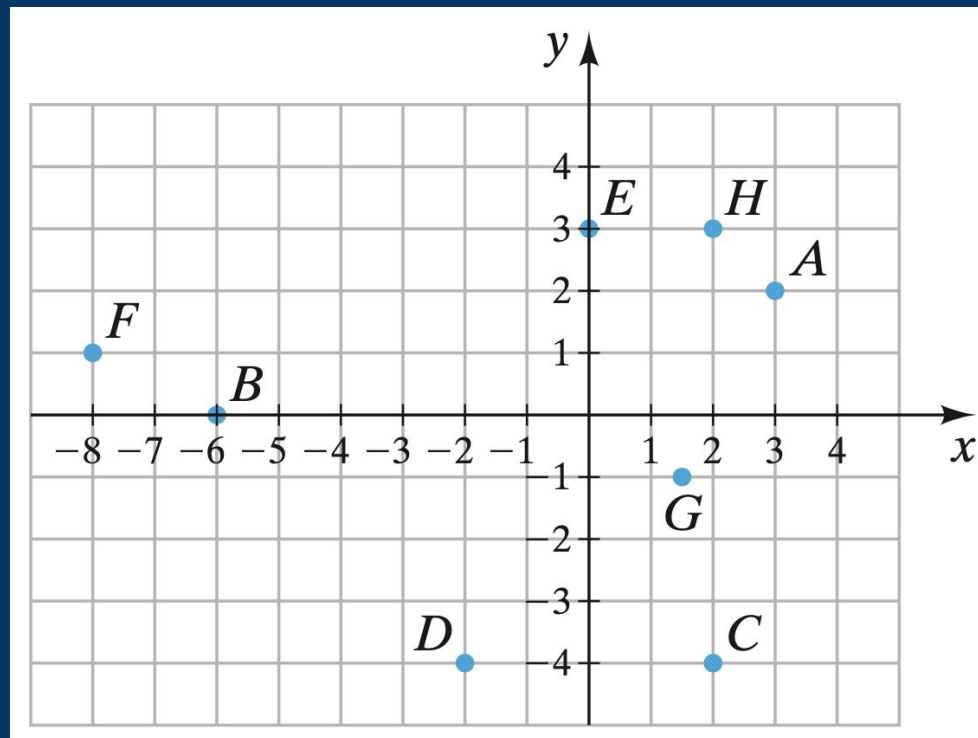
Section 3.1 - $100 Answer

(3,2)

Section 3.1 - $200 Question

Which quadrant is the point (-31,-8) in?

Section 3.1 - $200 Answer

Quadrant III.

Determine if (1,3) a solution to the equation 2x + 3y = 6. (Work required)

Click to see answer

It is not.

Which one of the following graphs is the graph of y = |x+8| + 3?
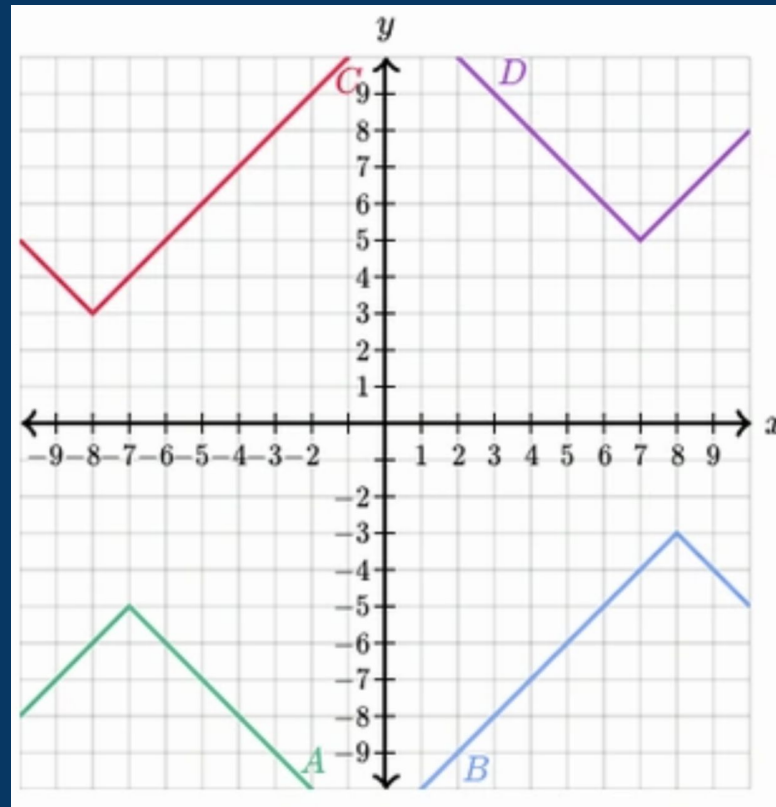
Click to see answer

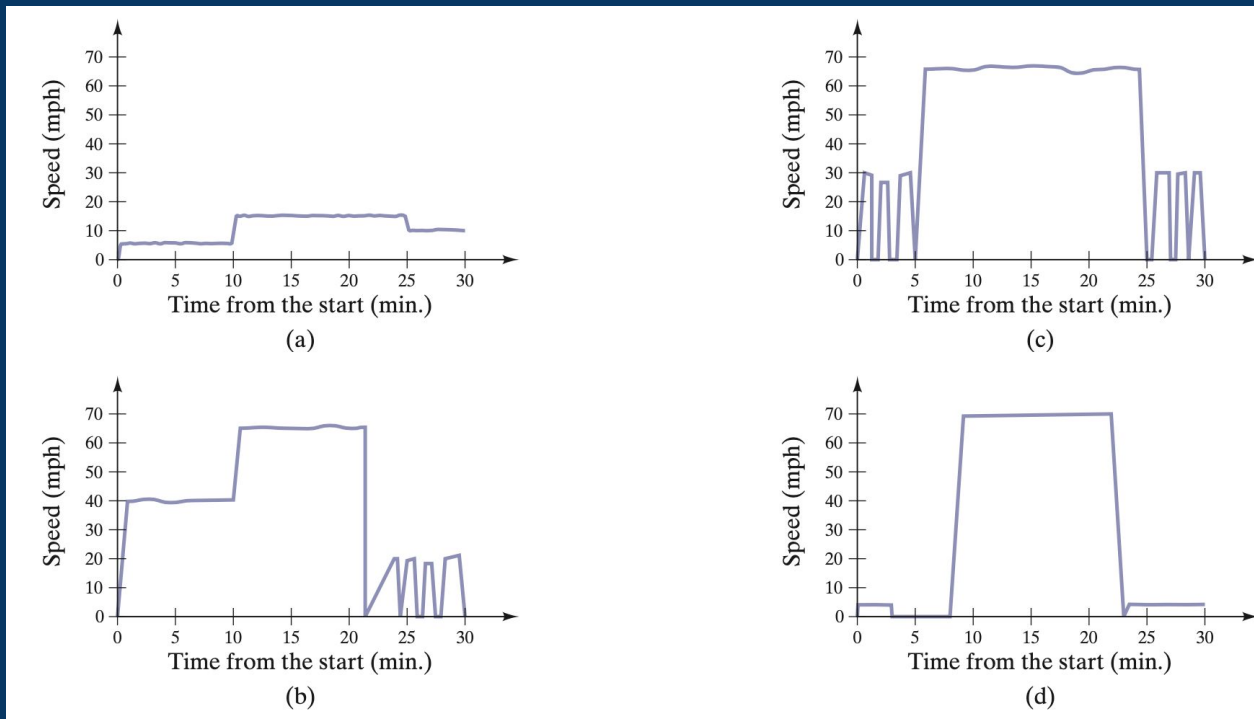# Graph C.

Section 3.1 - $500 Question

To go to work, Janet Samuels drove on a country road for 10 minutes, then drove on the highway for 12 minutes, then drove in sto-and-go traffic for 8 minutes. Which one of the following graphs corresponds to this journey?
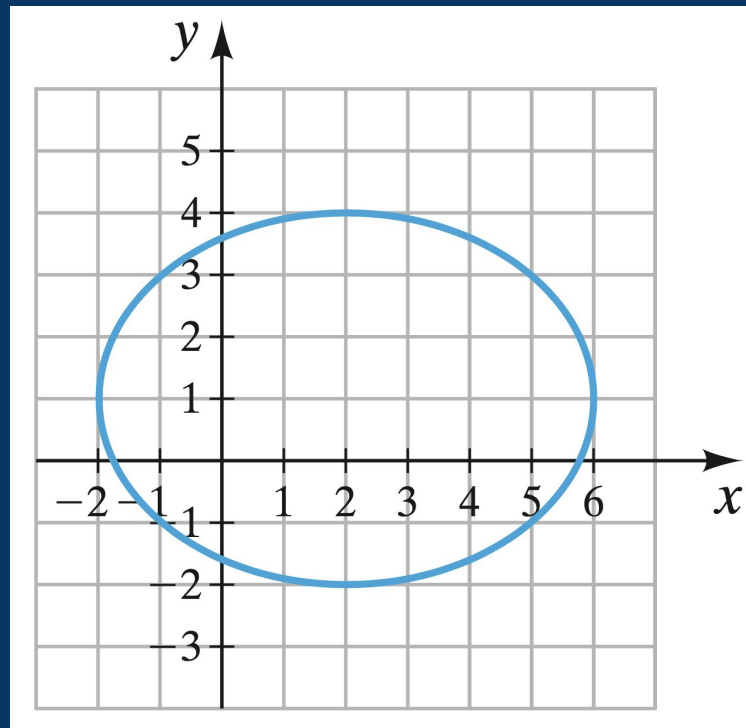
Graph b.

Section 3.2 - $100 Question

Is the following an illustration of a function? Explain.

It is not a function as it doesn't pass the vertical line test.

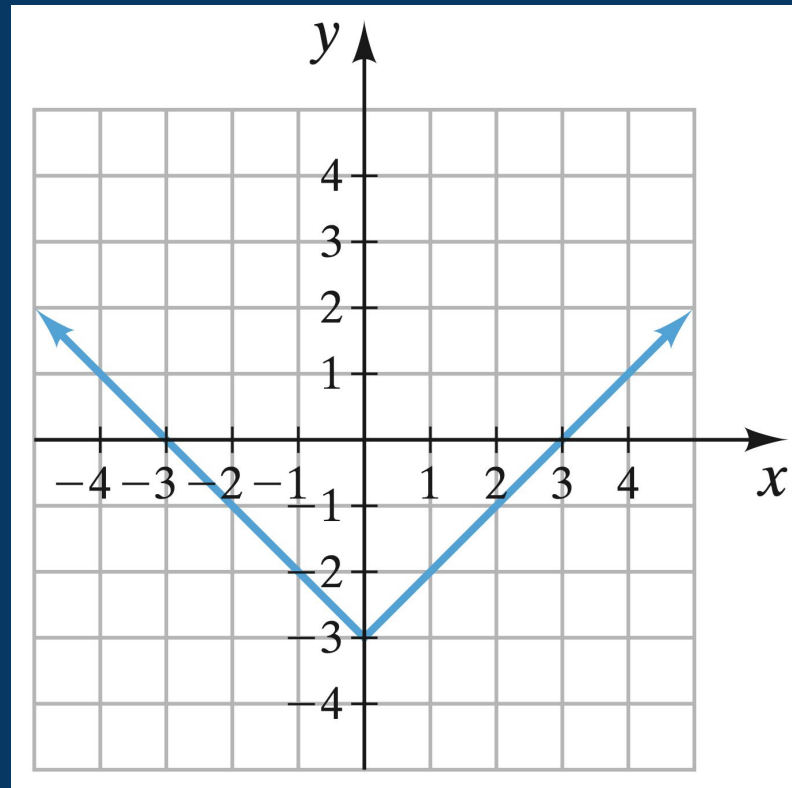Is the relation {(1,4), (2,5), (3,6), (2,2), (1,1)} a function? Explain.

Click to see answer

It is not a function. The x-value 2 is mapped to two different y-values.

Section 3.2 - $300 Question

Determine the domain and range of the following graph.

Domain (-∞,∞)
Range: [-3,∞)

Section 3.2 - $400 Question

If q(x) = -2|x+8| + 13, what is q(-4)?

5.

Section 3.2 - $500 Question

For the graphed function below, find:
(i) f(2)
(ii) all x such that f(x)=1
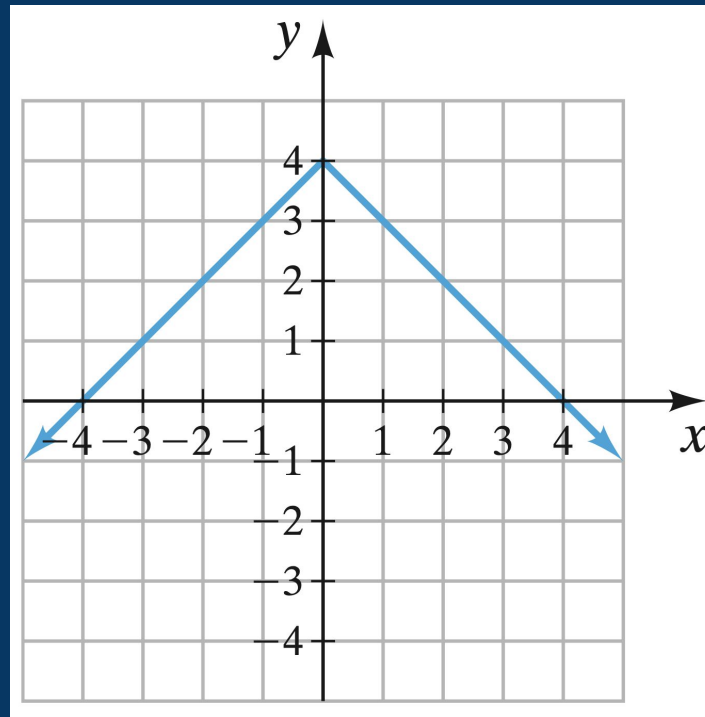
$$f(2)=2 \text{ and } x=-3,3$$

What is an x-intercept?

Click to see answer

A point at which the graph of an equation crosses the x-axis.

What are the three main forms for the equation of a line?

Standard/General Form, Slope-Intercept Form, Point-Slope Form

What are the x-intercept and y-intercept for 3x-4y=-12?

X-intercept : (4,0)
Y-intercept : (0,-3)

What is the slope of the line through (0,3) and (9,-3)?

Click to see answer

-2/3

What is the slope and y-intercept of -2x=3y+6?

Slope: -2/3, y-intercept: (0,-2)

How are the slopes of parallel lines related?

Section 3.5 - $100 Answer

They are equal.

What is the slope of a line perpendicular to y=-2x+6?

1/2

Find an equation of a line with slope -3 through the point (1,-2).

$$y=-3x+1$$

Determine if the following two lines are parallel, perpendicular, or neither:
4x + 2y = 8
8x = 4 - 4y

Click to see answer

Section 3.5 - $400 Answer

They are parallel.

Find an equation for the line that goes through the point (-3,5) and is parallel to the line through the points (-1,4) and (17,-2).

$$y = -1/3x + 4$$

A system of equations that has no solution is called _____.

Section 4.1 - $100 Answer

Inconsistent

How can you find the solution(s) of a system of equations graphically?

The solution(s) are where the graphs intersect.

If a system of two equations has an infinite number of solutions, how do the graphs of the lines relate to each other?

Click to see answer

They overlap completely.

Determine if (3,10) is a solution to the following system of equations:

$$y = 2x + 4$$
$$y = 2x - 1$$

Click to see answer

Section 4.1 - $400 Answer

It is not.

Find the solution to the following system of equations:

$$-x + y = 4$$
$$x - 2y = 6$$

(-14,10)

FINAL

JEOPARDY!

Topic: Equation(s) of linear functions

Final Jeopardy Question

Write the equation, in slope-intercept form, of the line that goes through the points (3,2) and (4,5).

Final Jeopardy Answer

$$y = 3x - 7$$