

# JEOPARDY!

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# JEOPARDY BOARD

FINAL JEOPARDY

3.1

3.2

3.3-3.4

3.5

4.1

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

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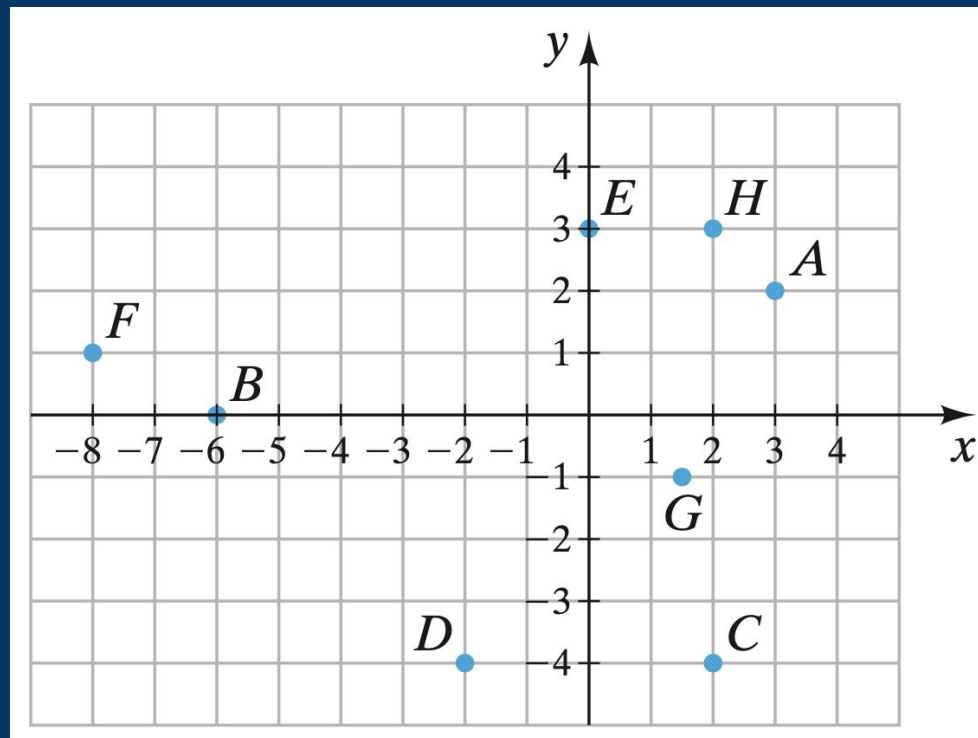
\$500

\$500

\$500

# Section 3.1 - \$100 Question

What are the coordinates of point A graphed below?



Click to see answer



# Section 3.1 - \$100 Answer

(3,2)

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## Section 3.1 - \$200 Question

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

Click to see answer



# Section 3.1 - \$200 Answer

Quadrant III.

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## Section 3.1 - \$300 Question

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

Click to see answer



# Section 3.1 - \$300 Answer

It is not.

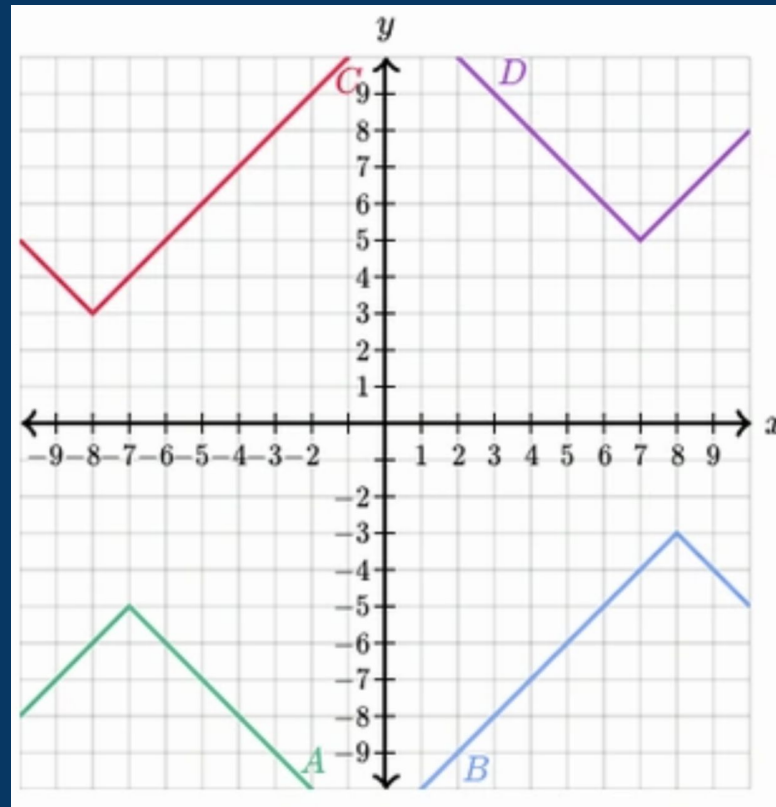
Click to return to Jeopardy Board





# Section 3.1 - \$400 Question

Which one of the following graphs is the graph of  $y = |x+8| + 3$ ?



Click to see answer



# Section 3.1 - \$400 Answer

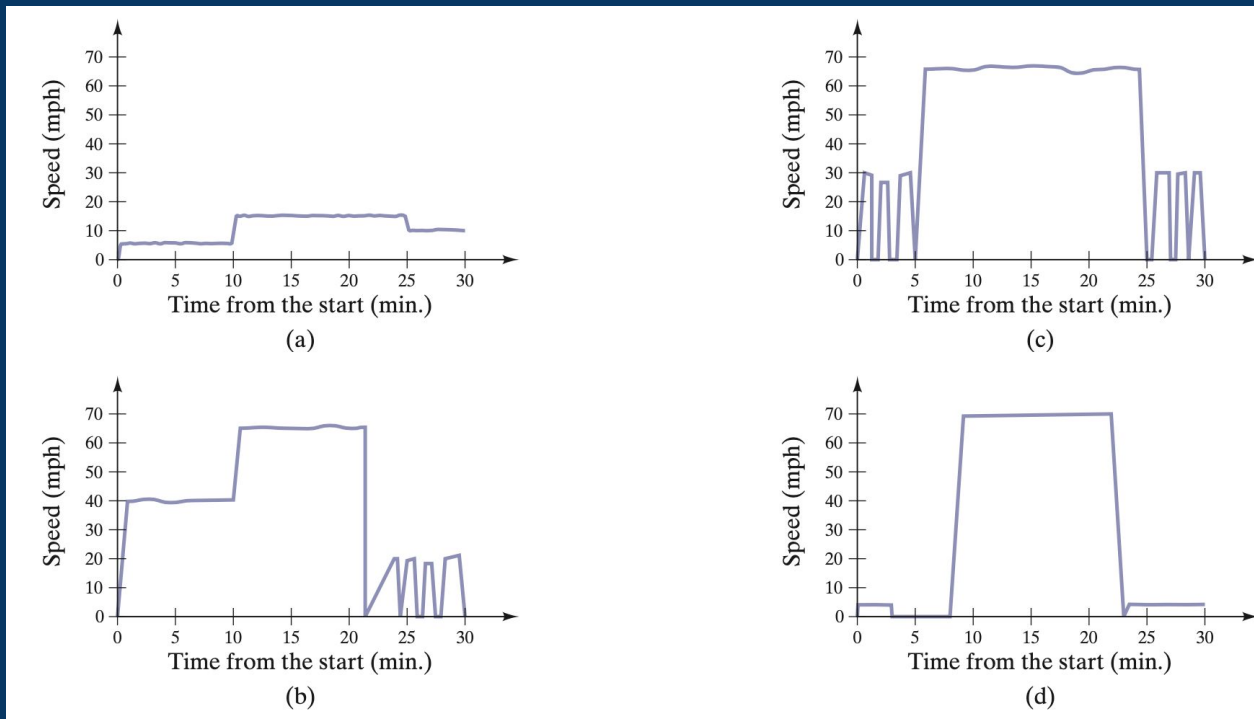
Graph C.

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# 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?



[Click to see answer](#)



# Section 3.1 - \$500 Answer

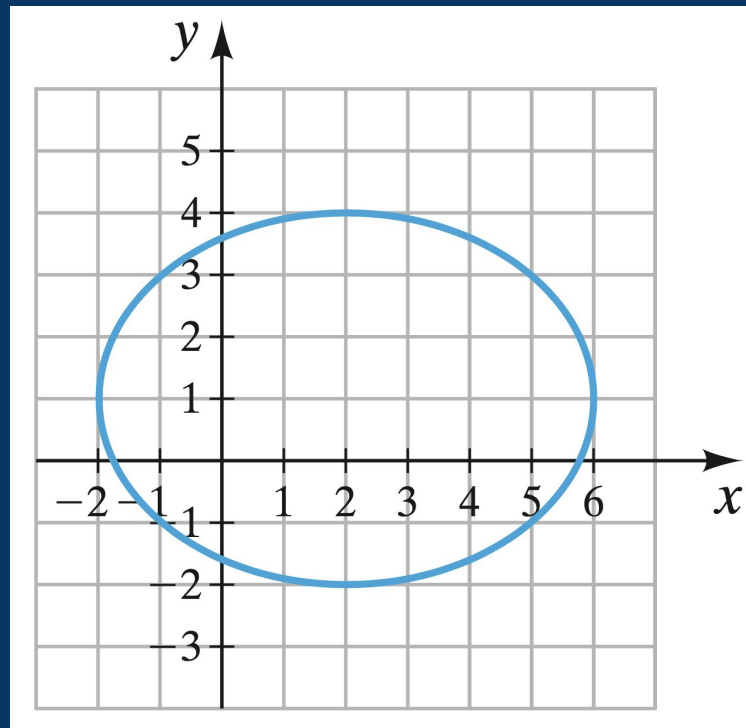
Graph b.

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## Section 3.2 - \$100 Question

Is the following an illustration of a function? Explain.



Click to see answer



## Section 3.2 - \$100 Answer

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



## Section 3.2 - \$200 Question

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

Click to see answer



## Section 3.2 - \$200 Answer

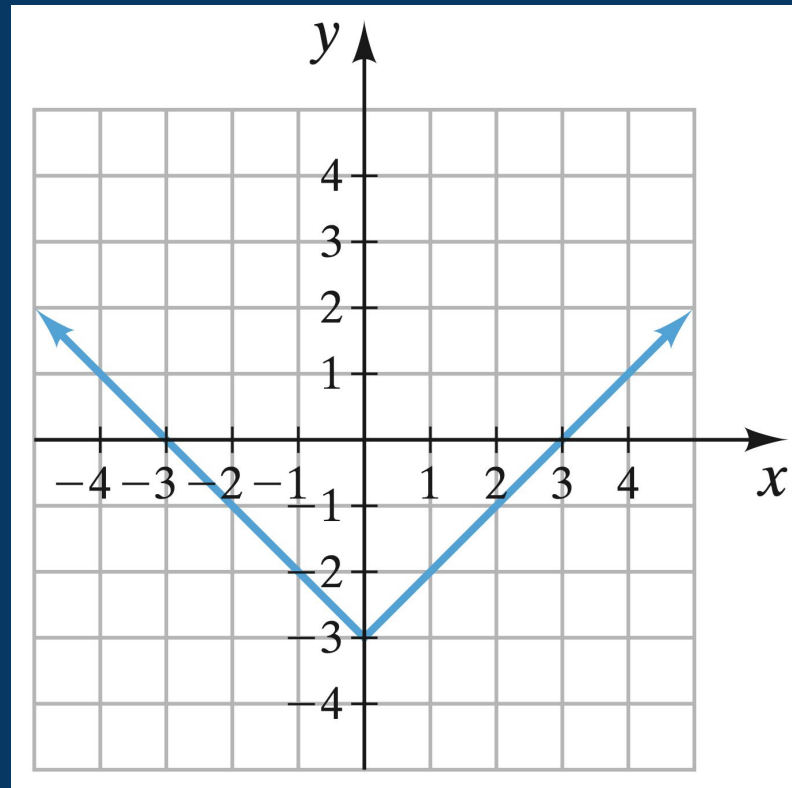
It is not a function. The x-value 2 is mapped to two different y-values.





## Section 3.2 - \$300 Question

Determine the domain and range of the following graph.



Click to see answer



# Section 3.2 - \$300 Answer

Domain  $(-\infty, \infty)$

Range:  $[-3, \infty)$

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## Section 3.2 - \$400 Question

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

Click to see answer



# Section 3.2 - \$400 Answer

5.

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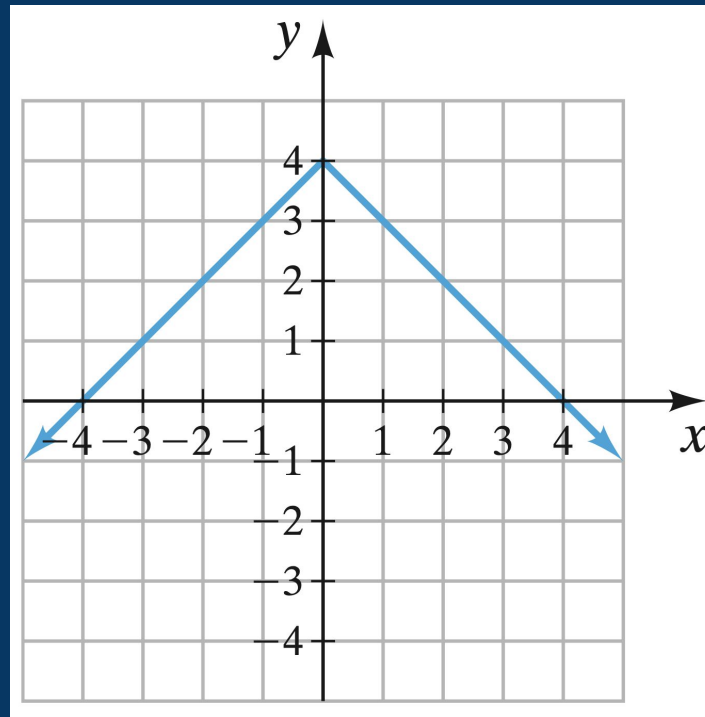


# Section 3.2 - \$500 Question

For the graphed function below, find:

(i)  $f(2)$

(ii) all  $x$  such that  $f(x)=1$



Click to see answer



# Section 3.2 - \$500 Answer

$$f(2)=2 \text{ and } x=-3,3$$

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# Sections 3.3-3.4 - \$100 Question

What is an x-intercept?

Click to see answer



## Sections 3.3-3.4 - \$100 Answer

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

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## Sections 3.3-3.4 - \$200 Question

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

Click to see answer



# Sections 3.3-3.4 - \$200 Answer

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

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## Sections 3.3-3.4 - \$300 Question

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

Click to see answer



# Sections 3.3-3.4 - \$300 Answer

X-intercept : (4,0)

Y-intercept : (0,-3)

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## Sections 3.3-3.4 - \$400 Question

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

Click to see answer



# Sections 3.3-3.4 - \$400 Answer

-2/3

Click to return to Jeopardy Board



## Sections 3.3-3.4 - \$500 Question

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

Click to see answer



# Sections 3.3-3.4 - \$500 Answer

Slope:  $-\frac{2}{3}$ , y-intercept:  
(0, -2)

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## Section 3.5 - \$100 Question

How are the slopes of parallel lines related?

Click to see answer



## Section 3.5 - \$100 Answer

They are equal.

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## Section 3.5 - \$200 Question

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

Click to see answer



# Section 3.5 - \$200 Answer

1/2

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## Section 3.5 - \$300 Question

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

Click to see answer



# Section 3.5 - \$300 Answer

$$y = -3x + 1$$

Click to return to Jeopardy Board



## Section 3.5 - \$400 Question

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.

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## Section 3.5 - \$500 Question

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  $(17, -2)$ .

Click to see answer



# Section 3.5- \$500 Answer

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

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## Section 4.1 - \$100 Question

A system of equations that has no solution is called

\_\_\_\_\_.

Click to see answer



# Section 4.1 - \$100 Answer

Inconsistent

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## Section 4.1 - \$200 Question

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

Click to see answer



## Section 4.1 - \$200 Answer

The solution(s) are where  
the graphs intersect.

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## Section 4.1 - \$300 Question

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



## Section 4.1 - \$300 Answer

They overlap completely.

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## Section 4.1 - \$400 Question

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.

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## Section 4.1 - \$500 Question

Find the solution to the following system of equations:

$$-x + y = 4$$

$$x - 2y = 6$$

Click to see answer



# Section 4.1 - \$500 Answer

$(-14, 10)$


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FINAL

# JEOPARDY!

Topic: Equation(s) of linear  
functions

Click to see question 

# Final Jeopardy Question

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

Click to see answer



# Final Jeopardy Answer

$$y = 3x - 7$$

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