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Reporting Category 3

Linear Functions: The student will demonstrate an understanding of linear functions	Name:
Academic Language	Notes:
Slope	M= R15E 42-41
	RUD = 42-41
y-intercept	X2-X1
Parallel	
	SAME SLOPE
Perpendicular	SLOPES ARE INVERSE
Equation	RECIPROLAL
Point Slope	4-4,=m(x-x,)
Linear Function	Y= MXYD
	m= slopp
	b: V-INT

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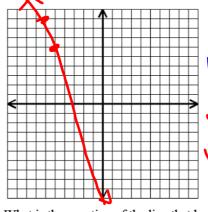
Reporting Category 3

A.6D

Graph and write equations of lines given characteristics such as two points, a point and slope, or a slope and y intercept.

Part I

1. What is the equation of the line that contains the points (-5, 6) and (-6, 9)?



Equation: $\sqrt{:3}$

Y-Y=m(x-x1) Y-6=-3(x-(-5)) Y-6=-3x-15

5) (y=-3x-9)

2. What is the equation of the line that has a y-intercept of 2 and a slope of ³/₄?

Equation:

Y= 3/x 12

m= 3 b= 2

3. Write an equation that describes a line that passes through the point (6, -3) and is perpendicular to the line represented by the equation 2x - 7y = 14

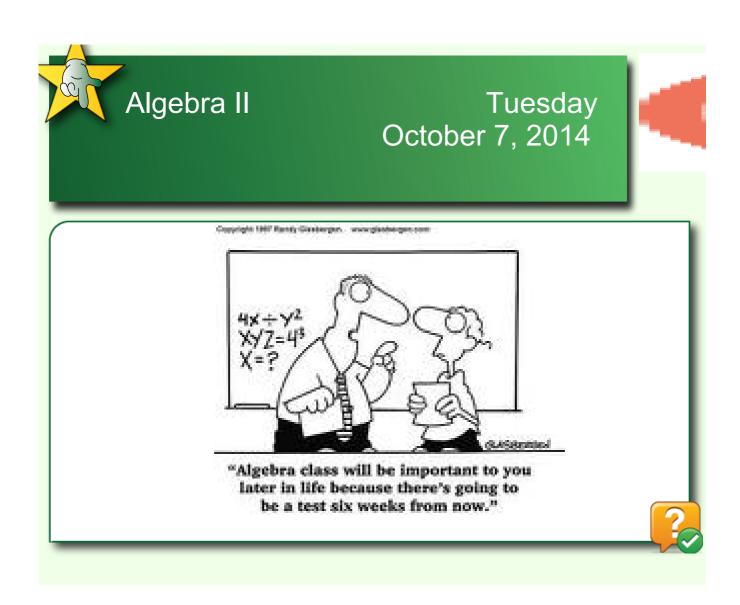
Equation:

1= 3×+18

1= = x - 5 Jx - 9 x - 111 | Tw = - =

4. Write an equation that describes a line that passes through the point (-2, 1) and is parallel to the line represented by the equation $\mathbf{x} - 3\mathbf{y} = 8$

Equation: $\sqrt{=\frac{3}{3}}$



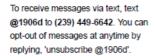


Algebra II Warm Up Tuesday October 7, 2014





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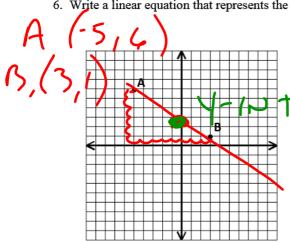


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Reporting Category 3

5. What is the equation of the line that contains the points (-3, 7) and (6, -5)?

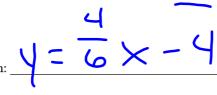
6. Write a linear equation that represents the line that passes through points A and B.

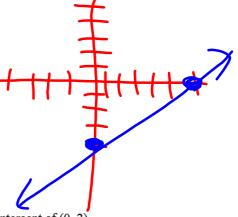


7. Write an equation that has a slope of $-\frac{1}{3}$ and passes through (-6, -1)



8. Write an equation that has a y-intercept of -4 and x-intercept of 6.





9. Write an equation that passes through the point (-4, 6) and has a y-intercept of (0, 2).

Quiz for Friday

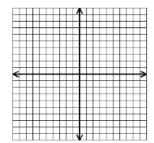
End of Course Algebra 1

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Part II

1. Which linear function includes the points (2, -7) and (-1, -10)?





B.
$$y = -x - 11$$

C.
$$y = 3x + 13$$

D.
$$y = -3x + 5$$

2. Which equation describes a line that passes through the point (-1, 5) and has a slope of -3?

F.
$$y = -3x + 14$$

G.
$$y = -3x + 8$$

$$Hy = -3x + 2$$

J.
$$y = -3x - 2$$

3. Which linear function includes the points (3, 3) and (-6, 9)?

A.
$$y = -2x - 3$$

B.
$$y = -\frac{3}{2}x + 4\frac{1}{2}$$

$$Cy = -\frac{2}{3}x + 5$$

D.
$$y = -\frac{2}{3}x + 3$$

4. Which equation describes the line that passes through the point (1, 4) and is parallel to the line represented by the equation -5x + y = 8?

$$F.y = 5x - 1$$

G.
$$y = -5x + 4$$

H.
$$y = \frac{1}{5}x + 3\frac{4}{5}$$

J.
$$y = -\frac{1}{5}x + 4\frac{1}{5}$$

5. Which of the following describes the line containing points (-6, -10) and (6, -2)?

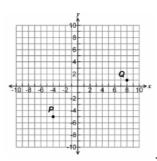
A.
$$y = \frac{2}{3}x + 6$$

B.
$$y = \frac{3}{2}x + 1$$

C.
$$y = \frac{2}{3}x - 6$$

D.
$$y = \frac{3}{2}x - 1$$

6. Which linear equation represents the line passing through points P and Q?



F.
$$y = 2x + 3$$

G.
$$y = 2x - 3$$

H.
$$y = 0.5x + 3$$

$$\int y = 0.5x - 3$$

Quiz for Friday

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7. Which equation describes a line that has a y-intercept of 3 and a slope of $\frac{4}{3}$?

A.
$$y = 3x + \frac{4}{3}$$

B.
$$y = 3x - \frac{4}{3}$$

C.
$$y = \frac{4}{3}x + 3$$

D.
$$y = \frac{4}{3}x - 3$$

8. Determine the equation of the line with slope of -2.5 that passes through the point at (3.5, -1.5)?

$$(F.)4y + 10x = 29$$

G.
$$x + y = 2$$

H.
$$y = 10x - 4y = 29$$

J.
$$6x - 8y = 33$$

9. What is the equation of the line that passes through the points at (-6, 2) and (1, 4)?

A.
$$2y - 7x = 1$$

B.
$$3x - 2y = -22$$

C.
$$4x + y = 26$$

$$\sqrt{D.}$$
 $7y - 2x = 26$

10. Which equation describes the line that passes through the point at (-3, 1) and is perpendicular to the line represented by the equation y + 4x = -5?

F.
$$y = -4x - 11$$

G.
$$y = -\frac{1}{4}x + \frac{1}{4}$$

$$y = \frac{1}{4}x + \frac{7}{4}$$

J.
$$y = 4x + 13$$

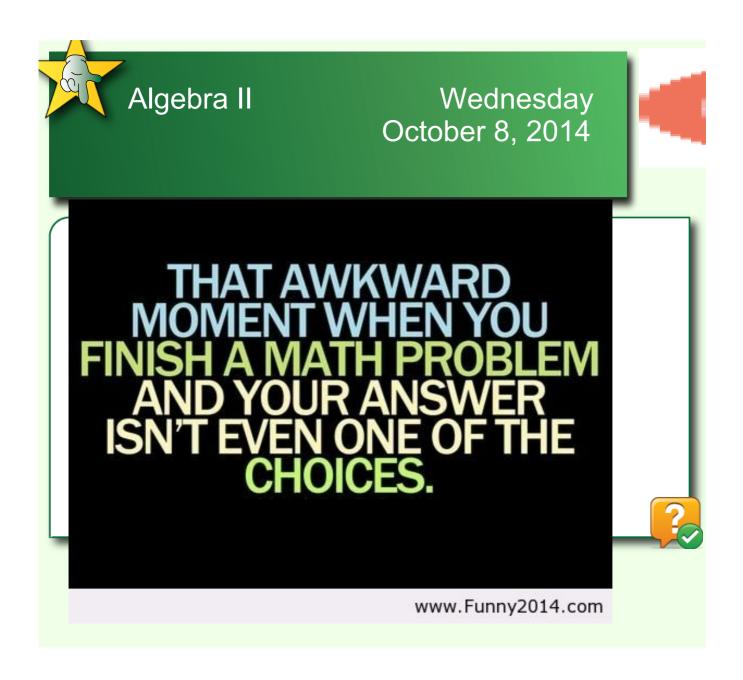
11. Which function represents the line that contains the point at $(5, -\frac{1}{2})$ and has a slope of $\frac{1}{2}$?

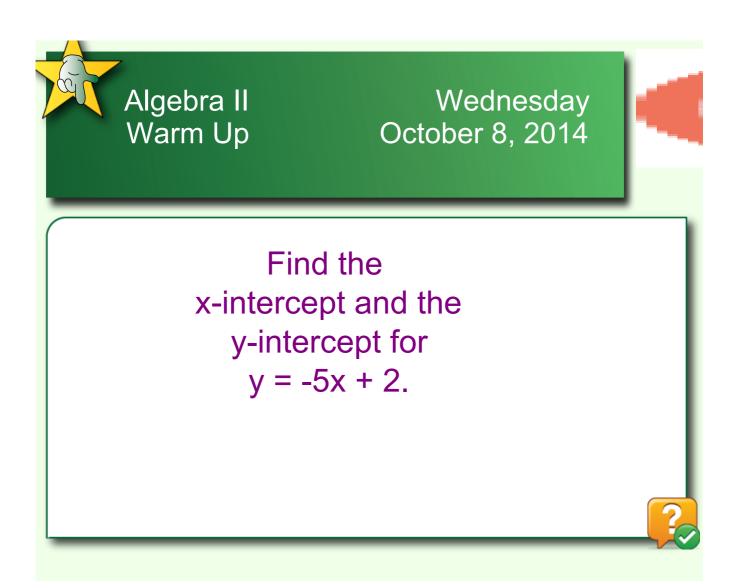
A.
$$f(x) = \frac{1}{2}x - \frac{5}{2}$$

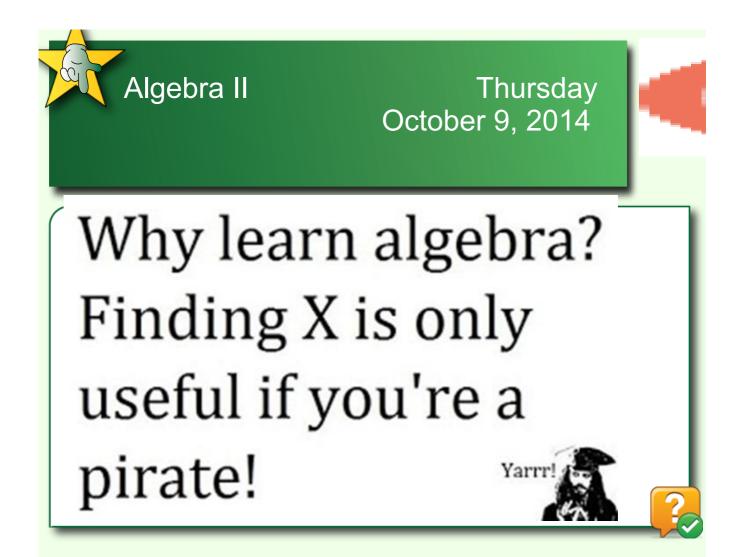
B.
$$f(x) = \frac{1}{2}x - 3$$

C.
$$f(x) = \frac{1}{2}x - 2$$

D.
$$f(x) = \frac{1}{2}x + \frac{5}{2}$$









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$$x - y = 30$$
$$x = 2y + 3$$

2. What is the equation of the line that contains the points (4, 5) and (-4, -6)?



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Linear Functions: The student will demonstrate an understanding of linear functions	Name: Date: Period: Topic: A.6E – Determine the intercepts of the graphs of linear functions and zeros of linear functions from graphs, tables, and algebraic representations.
Academic	Notes:
Language Linear Function	
2	
x-intercept	(2,0) X-AX/S
y-intercept	10 U) V-AXIS
Graph	
Table	
Function	
Zeros	X-INT Do-
Coordinate Pair	X-INT SOLUTION

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Reporting Category 3

A.6E

Determine the intercepts of the graphs of linear functions and zeros of linear functions from graphs, tables, and algebraic representations.

Part I

1. What are the x and y-intercepts of the function 3x - 6y = 12?

x-intercept: (40) y-intercept: (0-2)

2. What are the x and y-intercepts of the function $\frac{3}{2}x - y = 9$?

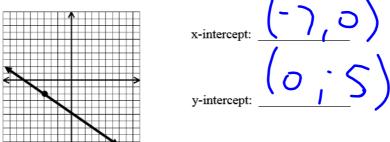
x-intercept: (6,0) y- intercept: (0,-9)

3. What are the x and y-intercepts of the function $\frac{1}{2}(x+2y-6)=3$?

(20) y-intercept: (06)

4. What are the x and y-intercepts of the function $\frac{13}{7}(2x + 11y) = -26$?

5. What are the x- and y- intercepts of the function graphed below?



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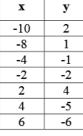
6. What are the x- and y-intercepts of the function 6x + 3y = -12.

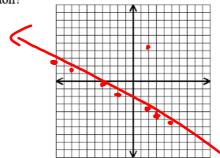


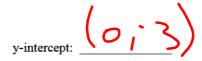
y-intercept: coordinate pair:

7. The table below shows ordered pairs of a linear function. What are the x- and y-intercepts for the graph of this linear function?

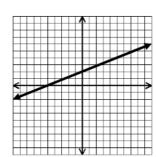






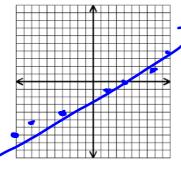


8. What are the zeros of the function graphed below?



9. The table below shows ordered pairs of a linear function. What are the zeros for the graph of this linear function?

x	y
-10	-8
-8	-7
-4	-5
2	-2
4	-1
8	1
10	2

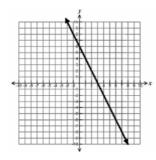


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Part II

1. What are the x- and y-intercepts of the function graphed below?



- A. (0, 6) and (0, 3)
- (0,6) and (3,0)
 - C. (6,0) and (3,0)
 - D. (6, 0) and (0, 3)
 - 2. Which of the following ordered pairs is an x-intercept or y-intercept of the function x-2y=12?

G.(6,0)

H. (0, 12)

J. (0, 6)

3. Which linear function has an x-intercept of 3 and a y-intercept of 6?

$$A_{-}y = -2x + 6$$

B.
$$y = -2x + 3$$

C.
$$y = 2x + 6$$

D.
$$y = 2x + 3$$

4. What is the y-intercept of the linear function $\frac{2}{3}y - 4x = 6$?

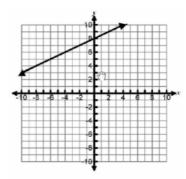
F. (0, -9)

$$\bigcirc_{(0,\,9)}$$

H. $\left(-\frac{3}{2},0\right)$

 $J.(\frac{3}{2},0)$

5. What is the x-intercept of the linear function shown in the graph below?



A.(0,8)

B. (-12, 0)

C. (-8, 0)

D. -16, 0)

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6. What is the y-intercept of the line that contains the points described in the table below?

x	У
-4	-10
-1	– 1
2	8

F. -3

G. 3

H. 1

 \mathcal{L}_2

7. Which coordinates points represent the x- and y- intercepts of the graph shown below?

A. (0, 2) and (3, 6)

B. (3, 0) and (2, 0)

C. (3,0) and (0,2)

D. (2, 0) and (0, 3)

8. Which coordinate points of the x-intercept and y-intercepts represent the linear function 5x + 2y = 15?

F. (0, 7.5) and (0, 3)

G. (7.5, 0) and (0, 3)

H. (3, 0) and (7.5, 0)

J (3, 0) and (0, 7.5)

9. What are the zeros of the linear function according to the data in the table below?

X	y
-2	-10
4	5
6	10

A. (-5, 0) and (2, 0)

B. (-5, 0) and (0, 2)

(2, 0) and (0, -5)

D. (2, 0) and (-5, 0)

10. What are the coordinates of the y-intercept of the line that passes through the points at (-4, 1) and (2, -2)?

F. (0, -2)

 $G^{(0,-1)}$

H. (-2, 0)

J. (-4, 0)

11. What are the coordinates of the x-intercept of the line that passes through the points at (2, -3) and (-1, 3)?

A. (2, 0)

B (½, 0)

C. (0, 1)

D. (0, -2)

