



Algebra 1 Agenda

				Stamp
Monday	10/19/2015	Objective:	Review	
		Assignment:	Study!!	
Tuesday	10/20/2015	Objective:	Test (Unit 3 Part 1)	
		Assignment:	None!	
Wednesday	10/21/2015	Objective:	Parallel & Perpendicular	
		Assignment:	Practice #1-5	
Thursday	10/22/2015	Objective:	Parallel & Perpendicular Day 2	
		Assignment:	Practice #1-11	
Friday	10/23/2015	Objective:	Quiz	
		Assignment:	HW 2.3 Due!	

Bellwork

Week of _____ - _____

Name: _____

Period: _____

Monday

thursday

Tuesday

Friday

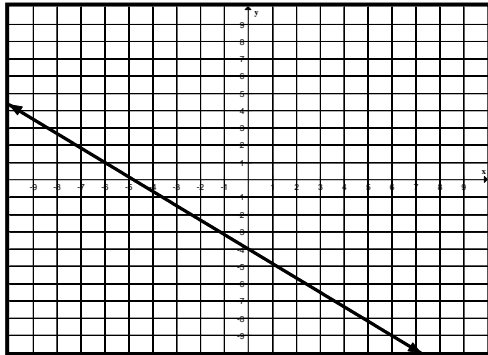
Wednesday

CHALLENGE

Practice –Parallel and Perpendicular Lines Day 1

Name _____ Date _____ Period _____

1. Given the graph:

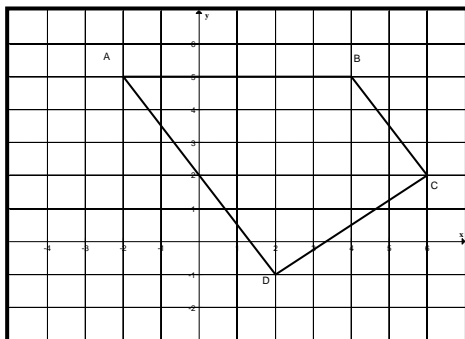


- A. What is the slope of the line? _____
- B. What is the slope of a parallel line? _____
- C. What is the equation of a line parallel and passes through the point (0, 2)? _____

2. If given these two points from a linear function: (-6, -4) and (3, 2)

- A. What is the slope of the line? _____
- B. What is the slope of a parallel line? _____
- C. What is the slope of a perpendicular line? _____

3. Show that $ABCD$ is a trapezoid. (Hint: In a trapezoid, exactly one pair of opposite sides is parallel).



4. Given the table:

x	-4	1	5	8
y	7	2	-10	-19

- A. What is the slope of the line? _____
- B. What is the slope of a parallel line? _____
- C. What is the slope of a perpendicular line? _____

5. Given the equation: $y = 3$

- A. Find the equation of the line that passes through the point (1,2) that is parallel to the line.
- B. Find the equation of the line that passes through the point (-3, 4) that is perpendicular to the line given.

Algebra I - Unit 3 Writing Equations of Parallel and Perpendicular Lines

Practice - Equations of Parallel and Perpendicular Lines

Name _____ Date _____ Period _____

#1-6. Tell whether each pair of lines are parallel, perpendicular, or neither.

1. $y = -7x$
 $y = -\frac{1}{7}x + 5$

2. $y = -2x$
 $y - 3 = -2(x - 4)$

3. $x + y = 0$
 $y = x + 10$

4. $y = 6x + 16$
 $y - 6x = -4$

5. $4x + 5y = -6$
 $-5x + 4y = 2$

6. $y = 2x + 6$
 $y + 1 = -2x$

7. Use the following equation for parts A & B.

$$3x - 4y = 8$$

A. Write an equation in slope-intercept form for the line that is parallel to the line and passes through the point (0,4).

B. Write an equation in point-slope form for the line that is perpendicular to the line and passes through the point (-6, 5)

8. Use the following equation for parts A & B.

$$x = 4$$

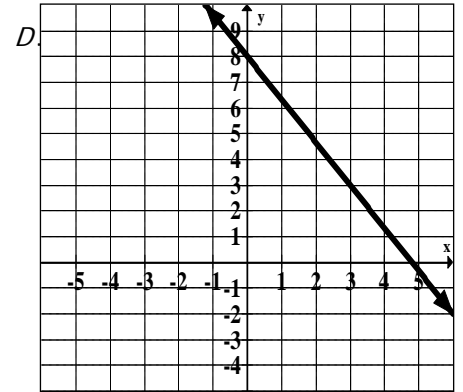
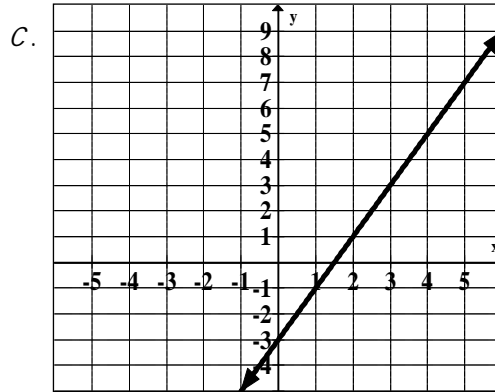
A. Write an equation for the line parallel to the given line and passes through the point (-3, 2)

B. Write an equation for the line perpendicular to the given line and passes through the point (5, 7)

Algebra I - Unit 3 Writing Equations of Parallel and Perpendicular Lines

9. Which describes a line passing through (3, 3) that is perpendicular to the line described by $y = \frac{3}{5}x + 2$?

A. $y = \frac{5}{3}x - 2$ B. $y = \frac{3}{5}x + \frac{6}{5}$



10. Which table shows a linear relationship that is parallel to the equation $y = \frac{1}{2}x + 3$?

A.

X	Y
-4	3
-2	2
0	1
2	0

B.

X	Y
-6	0
-2	2
0	3
4	5

C.

X	Y
-4	-5
2	-2
8	1
10	2

D.

X	Y
-6	-11
-3	-5
0	1
3	7

11. What is the equation of the line that has a slope of 0 and passes through the point (6, -8)?

- A. $x = 6$
- B. $y = 6$
- C. $x = -8$
- D. $y = -8$