

SLO: Justify that lines are parallel by comparing slopes on graphs or from equations.

10/4 Announcements

- 1. You need a compass EVERY day in this class incase we do constructions. You MUST have a compass to complete the homework. You MUST have a compass by Wednesday.
- 2. Group test Friday

SLO: Justify that lines are parallel by comparing slopes on graphs or from equations.

10/4 Assignment sheet

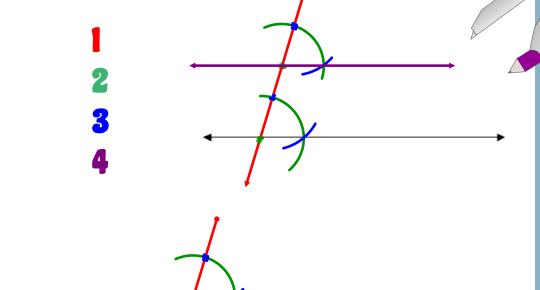
Class _	Period			
DATE	CLASSWORK ASSIGNMENT	HOMEWORK ASSIGNMENT		
10/1	Unit 1 Reflection	Unit 1 Reflection		
	10/2	10/2		
10/2	Proving Lines Parallel due	Proving Lines Parallel due		
	10/2	10/3		
10/3	Constructing Parallel Lines due	Constructing Parallel Lines due		
	10/3	10/4		
10/4	Parallel Lines on a Coordinate	Parallel Lines on a Coordinate		
	grid 10/4	grid 10/5		
10/5	Group Test Parallel Lines	Parallel Lines Review • • • • • • • • • • • • • • • • • • •		
	10/5	10/8		
	du.	4		

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10/4 HW Check

HOMEWORK: Constructing Parallel Lines with a compass and straightedge

1) Construct a line parallel to each line below:



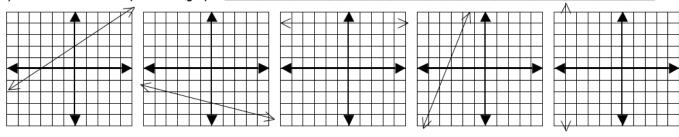
2) Describe WHAT we are doing to construct a parallel line and WHY it works.

Copy a corresponding angle along a transversal because if corresponding angles are congruent, then lines are parallel

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CLASSWORK: Parallel Lines on a Coordinate Grid.

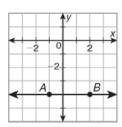
- 1) What does slope tell us about a line?_____
- 2) How can we find slope from a graph?_

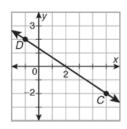


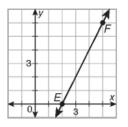
Slope = _____ Slope = ____ Slope = ____ Slope = ____ Slope = ____

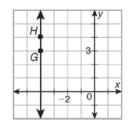
SLO: Justify that lines are parallel by comparing slopes on graphs or from equations.

Determine the slope of each line.









1.
$$\overrightarrow{AB}$$

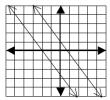
2. CD_____

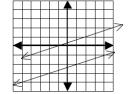
3. *EF* _____

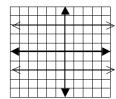
4. ĠH_____

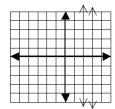
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3) The lines on the graphs below are parallel. What do you notice about the slope? Why does that happen?









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CLASSWORK: Parallel Lines on a Coordinate Grid.

4) How can you find the slope of a line if you know two points but don't have a coordinate grid?

a. A(-3,5) B(-7,11) b. C(-3,2) D(-3,9) c. E(7,1) F(-14,1) d. G(8, 4) H(10,12)

slope

slope_____

slope _____

slope____

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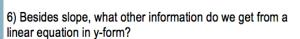
5) How can you determine whether or not two lines are parallel from points on the lines if you don't have a coordinate grid?

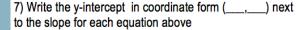
a. line JK, J(3,4) K(7,9) line LM, L(-29, -26) M(-9,-1) b, line NP, N(-42, 17), P(6,1) line QR, Q(15,10), R(33,1)

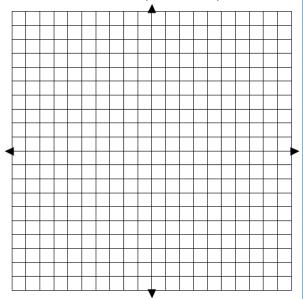
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5) Where does slope show up in an equation?

Type these equations into your graphing calculator 1 at a time and use the table of points to graph them. Find the slope from the graph and see where it shows up in the equation. Label each line with its equation and slope.







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8) How can I determine whether or not lines are parallel given their equations in y-form?

Are the pairs of lines below parallel?

- a) y = 4x 11 and y = 4x + 2 are/are not parallel because_____
- b) $y = -\frac{1}{2}x 6$ and y = -2x + 3 are/are not parallel because_____
- c) y = 3/4 x + 1 and y = 3/4 x are/are not parallel because_____
- d) y = 2x 3 and 3y = 6x + 3 are/are not parallel because_____

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9) What can I do if an equation isn't in y-form?

a)
$$3x - 9y = 63$$

b)
$$2(x-4) = y + 7$$

c)
$$-2(6x + 1) - y = 14$$

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10) How can I find the y-form of an equation of a line if I know the slope and a point?
SLO: Justify that lines are parallel by comparing slopes on graphs or from equations. G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given their equations.

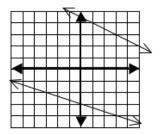
10/4 Proving Lines Parallel: graphs &	equations					
11) How can I find the y-form of an equation of a line if I know two points on the line?						
SLO: Justify that lines are parallel by comparing slopes on graphs or from equations.						
G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given t	heir equations.					

10/4 Proving Lines Parallel: graphs & equations	3				
12) Are there any times when 2 lines would have the same slope, but are not parallel?					
SLO: Justify that lines are parallel by comparing slopes on graphs or from equations.					
G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given their equations.					

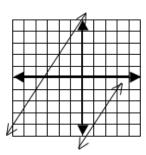
PARALLEL SUMMARY: Describe what we know about parallel lines so far. Include information about angle relationships, construction, graphs, and equations. Make connections between these SLO: Justify that lines are parallel by comparing slopes on graphs or from equations. G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given their equations.

HOMEWORK: Parallel Lines on a Coordinate Grid.

1) Determine whether the lines are parallel. Justify your answer with a written explanation.



2) Determine whether the lines are parallel. Justify your answer with a written explanation.



3) Determine whether the lines are parallel. Justify your answer with a written explanation.

$$y = 3x - 9$$

$$y = -3x - 2$$

4) Determine whether the lines are parallel. Justify your answer with a written explanation. Line AB with points A(6,2) and B(3, -4) and line C with points (9,12) and (6, 18)

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10/4	Geometry PRIDE	
Names	s & accomplishments	

10/4 Ticket Out the	e Door					
Ticket out the door Name © 1 2 3 4 5 © because: Rate how well you met today's S Objective). Describe how to conjustify that it works.	SLO (Student Lea					
SLO: Justify that lines are parallel by comparing slopes on graphs or from equations. G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given their equations.						

9/17 Quiz

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

9/17 **Test**

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

