10/10 Do Now

DO NOW Name_____ Date_____ Per_____

(1) Have your compass on your desk to be checked.

(2) Complete the statement: I think my grade in this class is a _____ because _____.

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.

10/10 Announcements

1. You will be earning points every day for having a compass.
2. Group test Friday

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10/10 Assignment sheet

Class _____ Period _____

DATE	CLASSWORK ASSIGNMENT	HOMEWORK ASSIGNMENT
10/8	Holiday due none	Holiday due none
10/9	Chapter 3 review in text due 10/9	Get a compass due 10/10
10/10	Unit 1 Reflection due 10/10	Unit 1 Reflection due 10/10
10/11	Parallel Lines on a Coordinate grid due 10/11	Parallel Lines on a Coordinate grid due 10/11
10/12	Group Test Parallel Lines due 10/12	Remember to bring a compass due 10/15

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10/10 Proving Lines Parallel: graphs & equations

1) Make at least 3 comparisons between evidence of understanding on the pretest and evidence of understanding on the unit test.

2) Look at the assignments that you attempted/ completed for the unit. What did you do to help yourself master the material for each assignment? If you did not master the material, what could you have done to advocate for yourself (make sure you understood the material)?

3) What is your plan for making sure that you learn any parts of the material that you struggled with at the end of the unit?

Date	Time	Action	Who will help me?	How will this help me?

10/10 Proving Lines Parallel: graphs & equations

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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10/10 Proving Lines Parallel: graphs & equations

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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10/10 Proving Lines Parallel: graphs & equations

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.

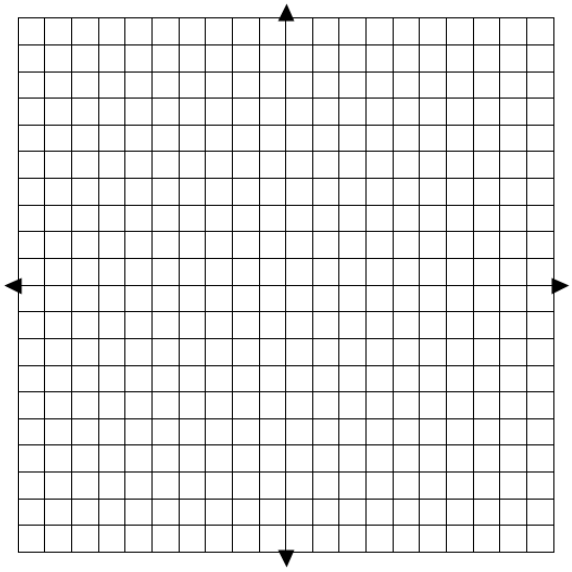
y = -2x + 3 slope____

y = ¼ x – 5 slope____

y = 3x – 1 slope____

y = 7 slope____

x = -8 slope____



6) Besides slope, what other information do we get from a linear equation in y-form?

7) Write the y-intercept in coordinate form (___,___) next to the slope for each equation above

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10/10 Proving Lines Parallel: graphs & equations

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) $y = \frac{3}{4}x + 1$ and $y = \frac{3}{4}x$ are/are not parallel because_____

d) $y = 2x - 3$ and $3y = 6x + 3$ are/are not parallel because_____

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10/10 Proving Lines Parallel: graphs & equations

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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10/10 Proving Lines Parallel: graphs & equations

10) How can I find the y-form of an equation of a line if I know the slope and a point?

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10/10 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?

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10/10 Proving Lines Parallel: graphs & equations

12) Are there any times when 2 lines would have the same slope, but are not parallel?

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G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given their equations.

10/10 Proving Lines Parallel: graphs & 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.

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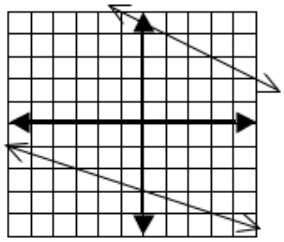
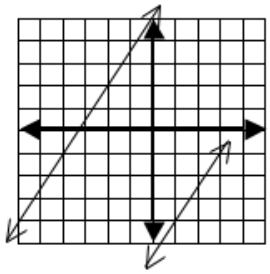
10/10 Proving Lines Parallel: graphs & equations

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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10/5 Geometry PRIDE

Names & accomplishments

10/10 Ticket Out the Door

Ticket out the door Name_____ Date_____ Per__

SLO: ☹ 1 2 3 4 5 ☺ because:

Are the lines below parallel? How do you know?

$3x + 2y = 8$

$y = -2/3\ x + 4$

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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: