Week Two

Foundations to Algebra

Desoto County Schools

Kuta Software - Infinite Pre-Algebra

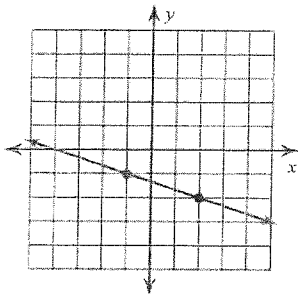
Name_____

Slope

Date_____ Period____

Find the slope of each line.

1)



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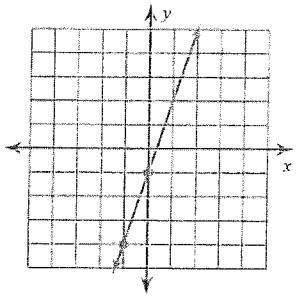

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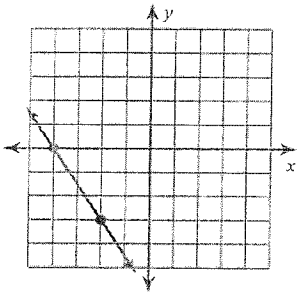

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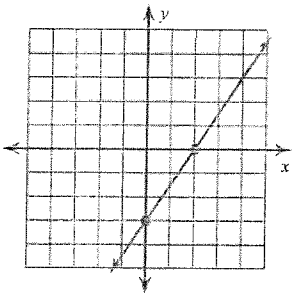

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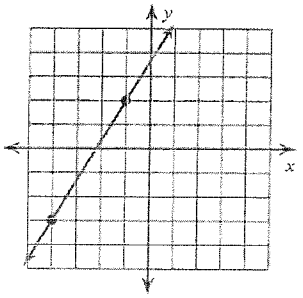

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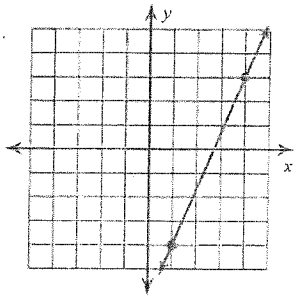

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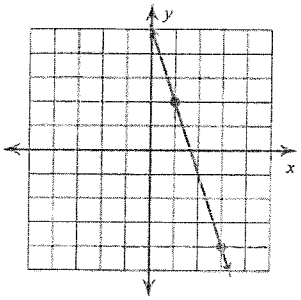

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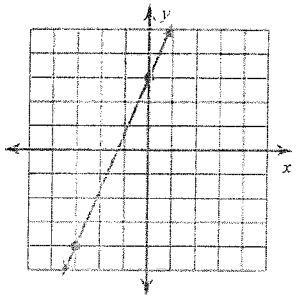

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Slope.pdf

Find the slope of the line through each pair of points.

9) $(8, 10), (-7, 14)$

10) $(-3, 1), (-17, 2)$

11) $(-20, -4), (-12, -10)$

12) $(-12, -5), (0, -8)$

13) $(-19, -6), (15, 16)$

14) $(-6, 9), (7, -9)$

15) $(-18, -20), (-18, -15)$

16) $(12, -18), (11, 12)$

Find the slope of each line.

17) $y = -5x - 1$

18) $y = \frac{1}{3}x - 4$

19) $y = -\frac{1}{5}x - 4$

20) $x = 1$

21) $y = \frac{1}{4}x + 1$

22) $y = -\frac{2}{3}x - 1$

23) $y = -x + 2$

24) $y = -x - 1$

25) $2x + 3y = 9$

26) $5x + 2y = 6$

Kuta Software - Infinite Pre-Algebra

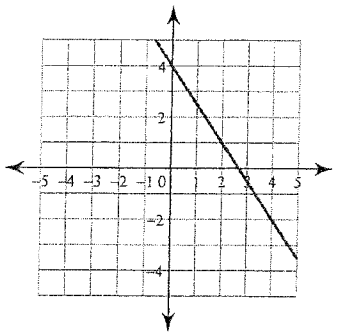
Name_____

Writing Linear Equations

Date_____ Period____

Write the slope-intercept form of the equation of each line.

1)



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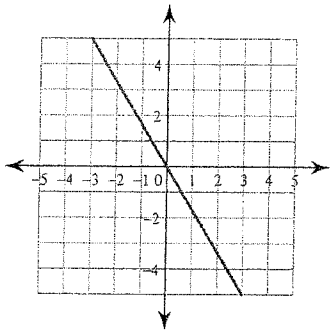

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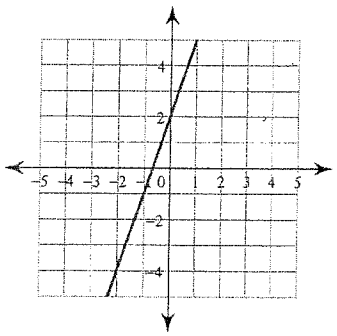

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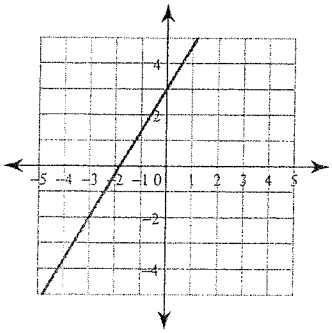

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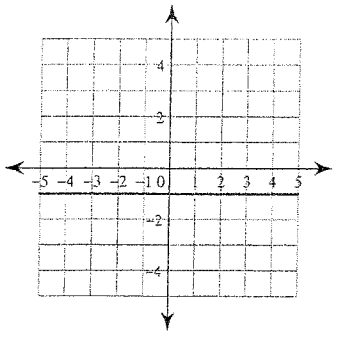
Writing Linear Equations(1)

5)



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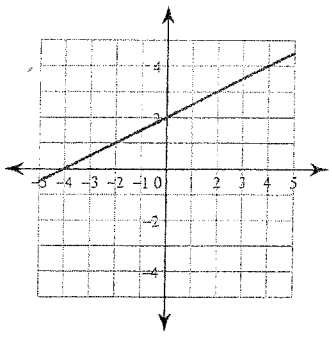

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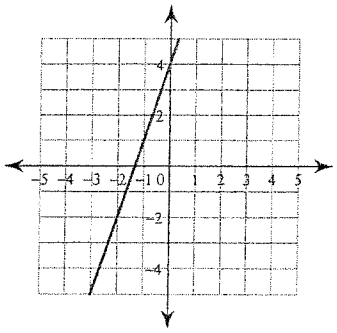

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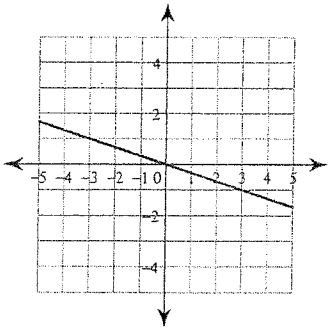


Kuta Software - Infinite Algebra 1 Name_____

Writing Linear Equations

Date_____ Period____

Write the slope-intercept form of the equation of each line.

1) $3x - 2y = -16$

2) $13x - 11y = -12$

3) $9x - 7y = -7$

4) $x - 3y = 6$

5) $6x + 5y = -15$

6) $4x - y = 1$

7) $11x - 4y = 32$

8) $11x - 8y = -48$

Write the standard form of the equation of the line through the given point with the given slope.

9) through: $(1, 2)$, slope = 7

10) through: $(3, -1)$, slope = -1

11) through: $(-2, 5)$, slope = -4

12) through: $(3, 5)$, slope = $\frac{5}{3}$

2pgs

Inl-iting Linear Equations.pdf

13) through: $(2, -4)$, slope $= -1$

14) through: $(2, 5)$, slope = undefined

15) through: $(3, 1)$, slope $= \frac{1}{2}$

16) through: $(-1, 2)$, slope $= 2$

Write the point-slope form of the equation of the line described.

17) through: $(4, 2)$, parallel to $y = -\frac{3}{4}x - 5$

18) through: $(-3, -3)$, parallel to $y = \frac{7}{3}x + 3$

19) through: $(-4, 0)$, parallel to $y = \frac{3}{4}x - 2$

20) through: $(-1, 4)$, parallel to $y = -5x + 2$

21) through: $(2, 0)$, parallel to $y = \frac{1}{3}x + 3$

22) through: $(4, -4)$, parallel to $y = -x - 4$

23) through: $(-2, 4)$, parallel to $y = -\frac{5}{2}x + 5$

24) through: $(-4, -1)$, parallel to $y = -\frac{1}{2}x - 1$

Name: _____ **Unit 4:** Linear Equations

Date: _____ **Bell:** _____ **Homework 5:** Slope & Graphing Lines Review

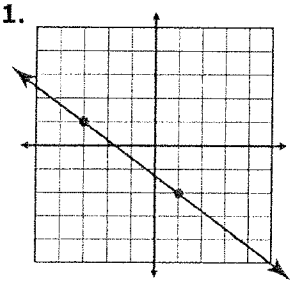
**** This is a 2-page document! ****

Directions: Identify each of the following below.

SLOPE FORMULA	SLOPE-INTERCEPT FORM	STANDARD FORM

Directions: Find the slope of the line shown on the graph.

1.



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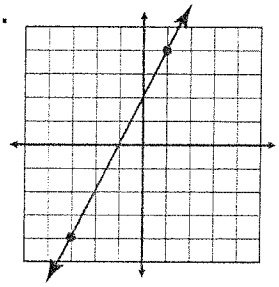
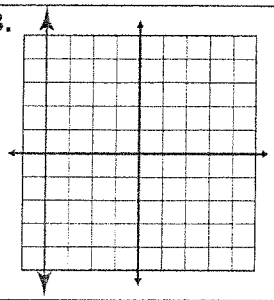


3.



Directions: Find the slope of the line that passes through the given two points.

4. (1, -4) and (-4, -6)

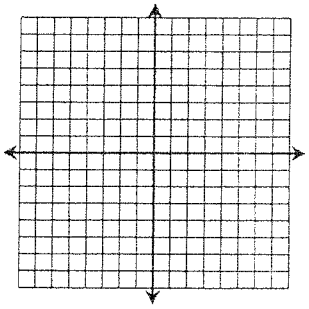
5. (-6, 2) and (-5, -2)

6. (-3, 3) and (-9, 5)

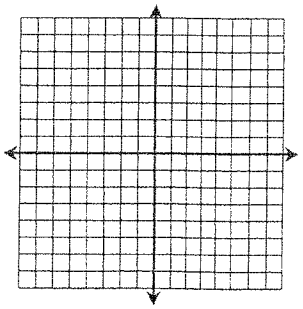
7. (4, -7) and (2, -7)

Directions: Graph each equation using slope-intercept form.

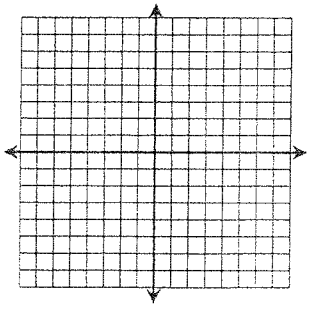
8. $y = x + 6$



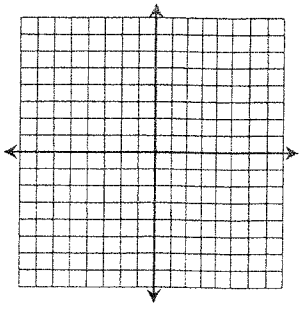
9. $y = -\frac{5}{3}x + 1$



10. $y = \frac{1}{2}x - 5$

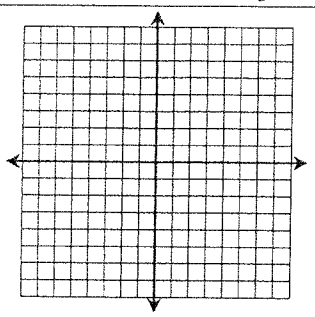


11. $y = -2 - 4x$

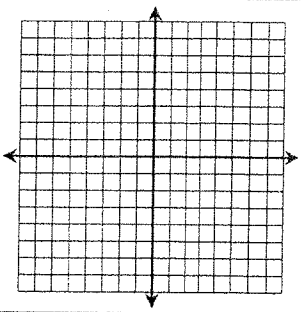


Directions: Graph each equation by converting to slope-intercept form. **SHOW ALL WORK!**

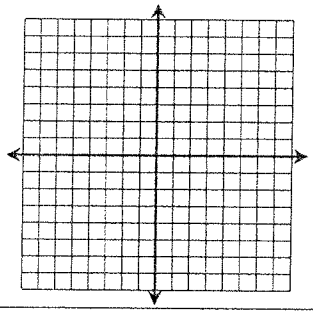
12. $6x - 2y = -14$



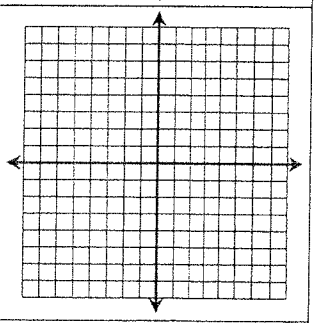
13. $x - y = -3$



14. $x - 4y = -24$

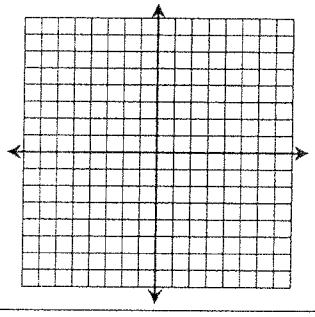


15. $10x + 4y = 0$

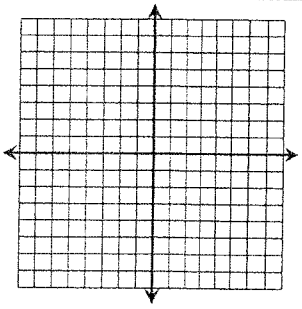


Directions: Graph each equation by finding its x- and y-intercept. **SHOW ALL WORK!**

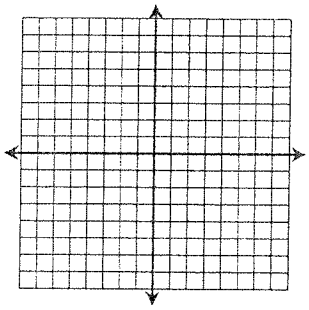
16. $x - y = 5$



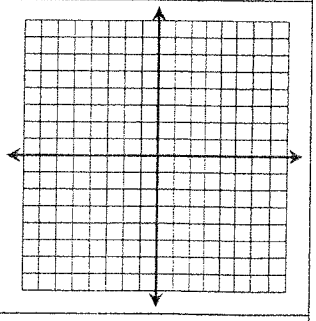
17. $x + 5y = -5$



18. $9x + 12y = -36$

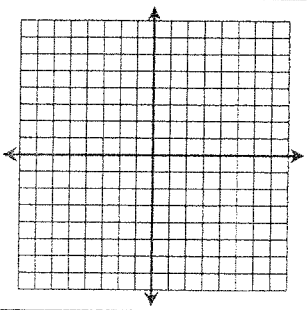


19. $16x - 10y = 20$



Directions: Graph each equation.

20. $y = 1$



21. $x = -6$