Linear Equations: Six Essential Skills

	Pre	Goal	Post
1. Graph a line from an equation in slope-intercept form.			
2. Determine slope from a graphed line, interpreting scale.			
3. Determine slope from two points.			
4. Write the equation of a line from one point and the slope.			
5. Write the equation of a line from two points.			
6. Rearrange an equation from standard form to slope-intercept form, and vice versa.			

1. Graph $y = -\dfrac{1}{3}x + 2$
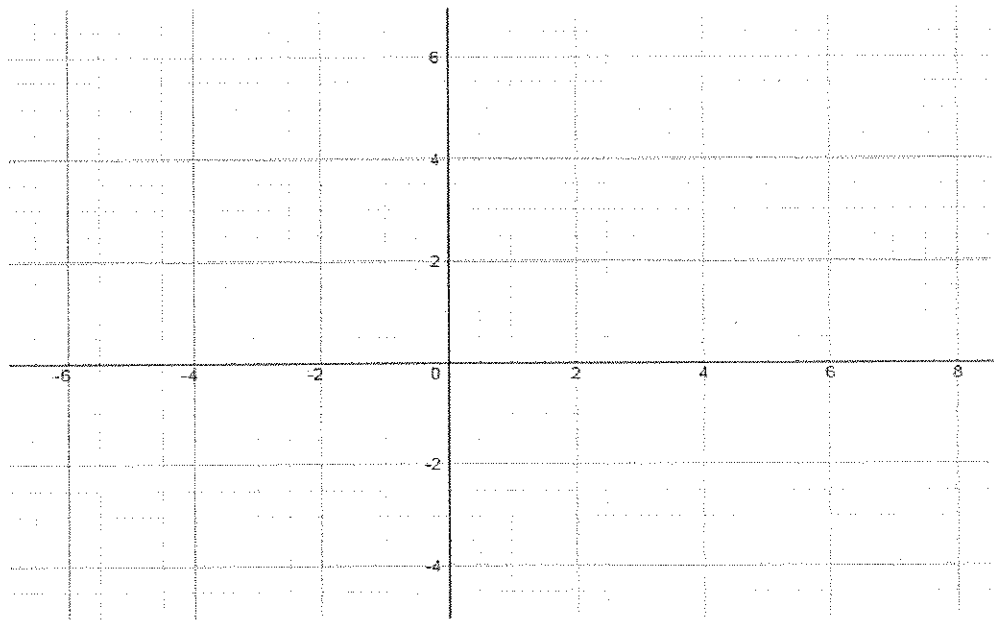
2. Find the slope:
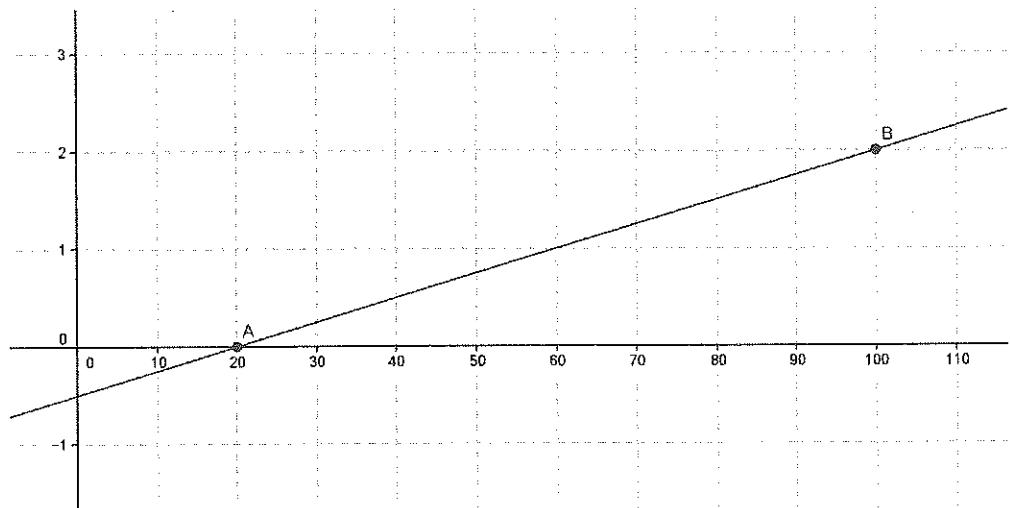
3. Find the slope from (-10, 8) to (11, -3).

4. Write an equation of the line through (3,9) with slope -1/2.

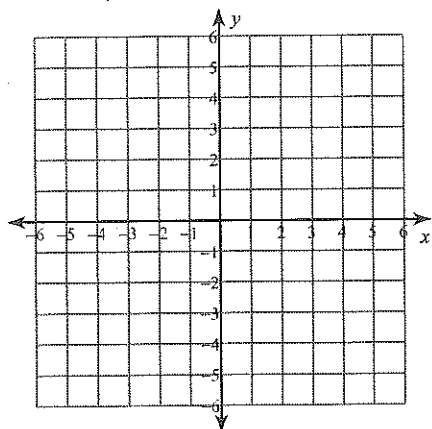5. Write an equation of the line through (-10, 8) and (11, -3).

5. Write an equation of the line in part 2.
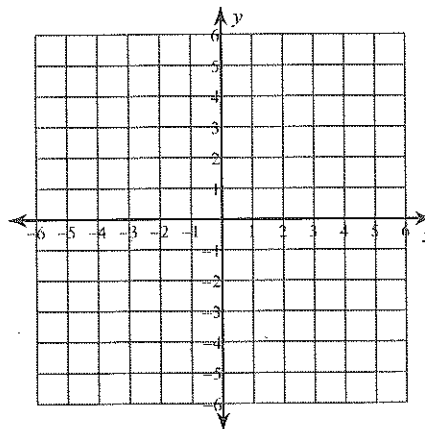
6. Rearrange to slope-intercept form: $3x-6y=-8$.

Name_____

Graphing Lines
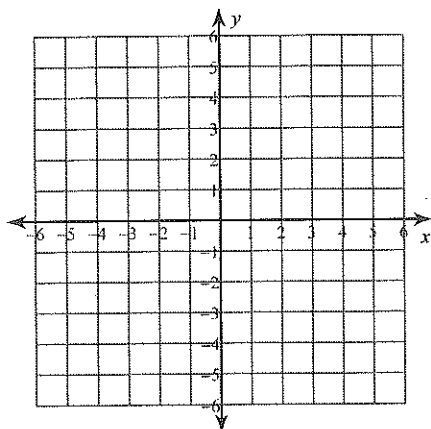
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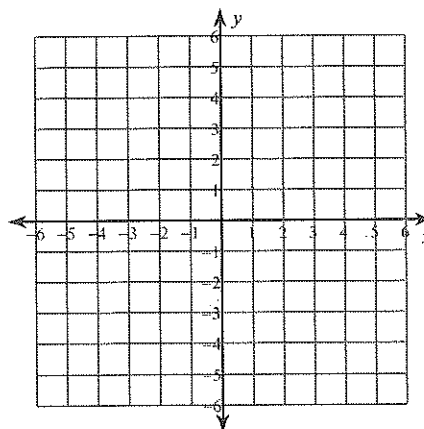
Sketch the graph of each line.

1) $y = \dfrac{7}{2}x - 2$

2) $y = -6x + 3$
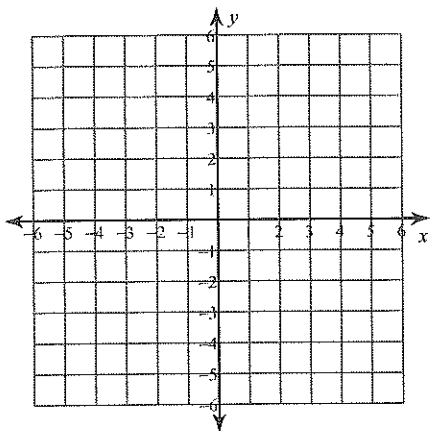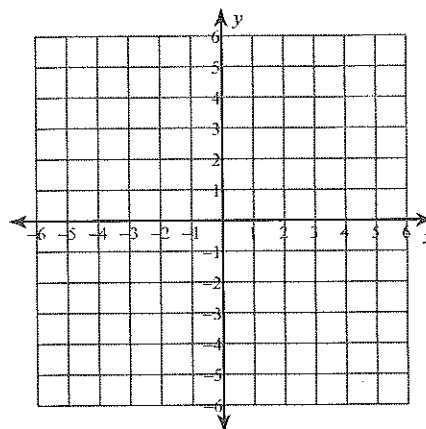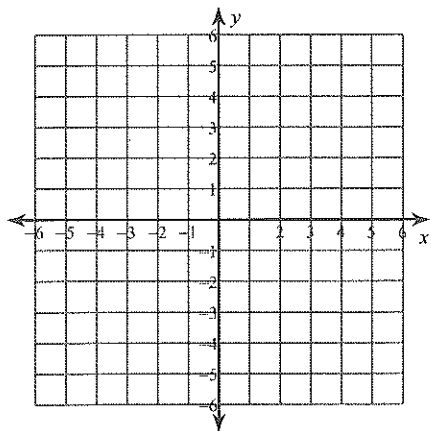
3) $y = -5$
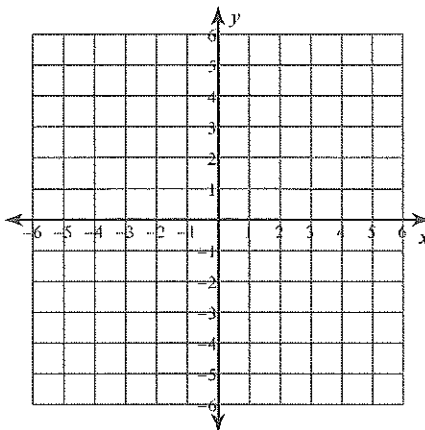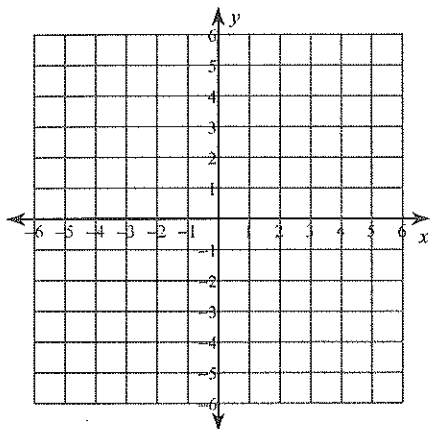
4) $y = \dfrac{6}{5}x + 1$

5) $y = \dfrac{1}{4}x + 2$
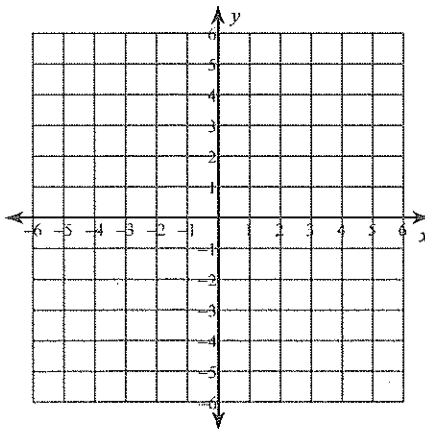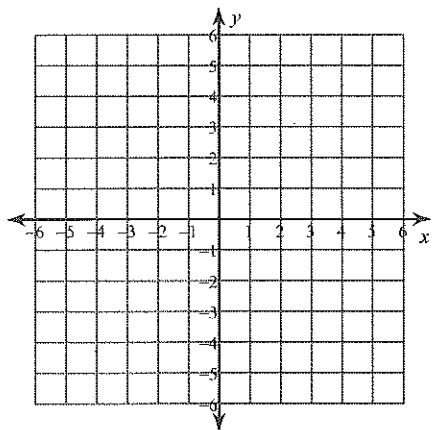
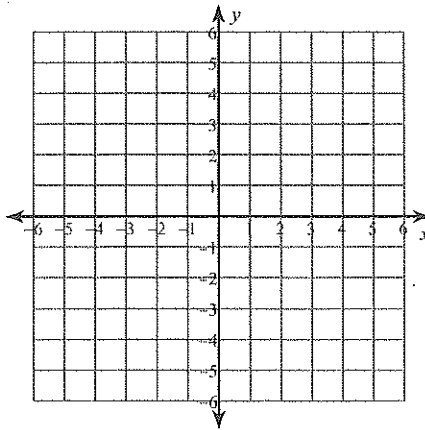6) $x = 5$

7) $y = \dfrac{5}{3}x$

8) $x = 0$

9) $y = -\dfrac{1}{3}x + 3$

10) $y = \dfrac{1}{5}x - 4$

11) $y = \dfrac{1}{2}x - 2$

12) $y = 2x + 5$

Name_____

Finding Slope From a Graph

Date_____ Period_____

Find the slope of each line.

1)
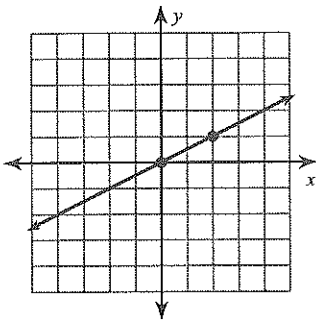
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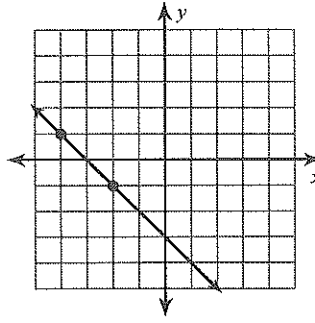
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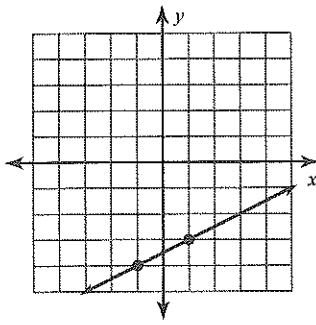
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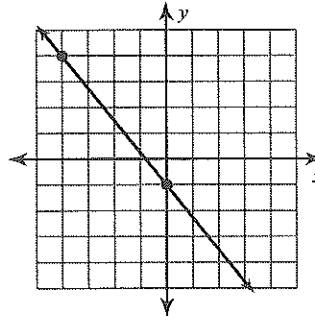
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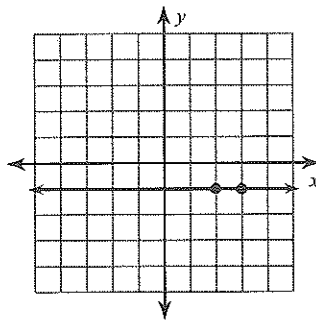
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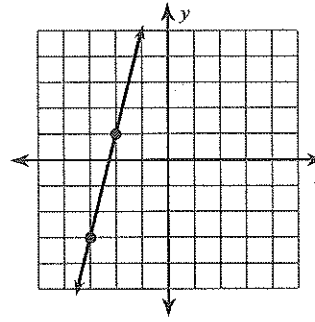
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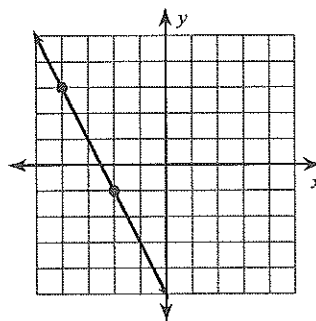
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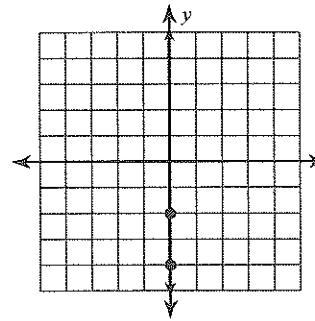
SCALE!

9)

10)

11)

12)

13)

14)

15)

16)

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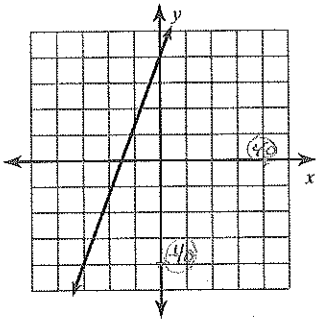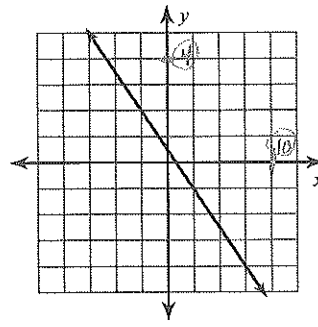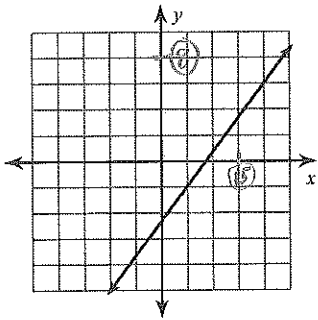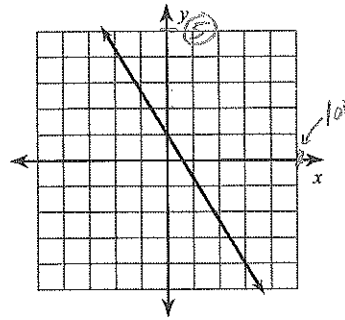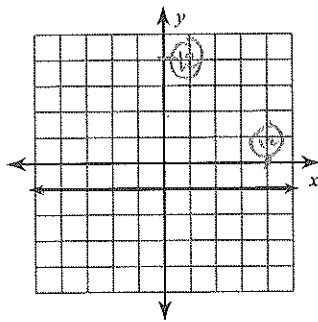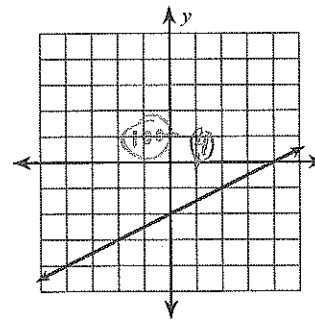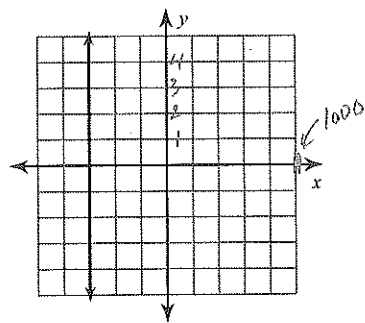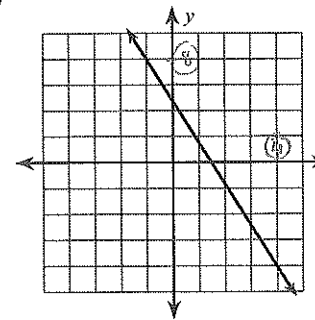
Finding Slope From Two Points

Date_____ Period____

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

1) $(19, -16), (-7, -15)$

2) $(1, -19), (-2, -7)$

3) $(-4, 7), (-6, -4)$

4) $(20, 8), (9, 16)$

5) $(17, -13), (17, 8)$

6) $(19, 3), (20, 3)$

7) $(3, 0), (-11, -15)$

8) $(19, -2), (-11, 10)$

Course 3

Writing Equations given two points

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope $= 4$, y-intercept $= 3$

2) Slope $= -1$, y-intercept $= 1$

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

3) through: $(5, 1)$, slope $= -\dfrac{2}{5}$

4) through: $(2, -4)$, slope $= -\dfrac{7}{2}$

Write the slope-intercept form of the equation of the line through the given points.

5) through: $(2, 0)$ and $(4, 4)$

6) through: $(0, -4)$ and $(-3, -1)$

7) through: $(1, 3)$ and $(0, -4)$

8) through: $(2, 3)$ and $(0, -3)$

9) through: $(0, 4)$ and $(-5, 0)$

10) through: $(0, 4)$ and $(-5, 5)$

11) through: $(0, -3)$ and $(-5, -5)$

12) through: $(0, 5)$ and $(4, -4)$

13) through: $(3, 4)$ and $(0, -2)$

14) through: $(0, -1)$ and $(-4, 5)$