Kuta Software - Infinite Algebra 1

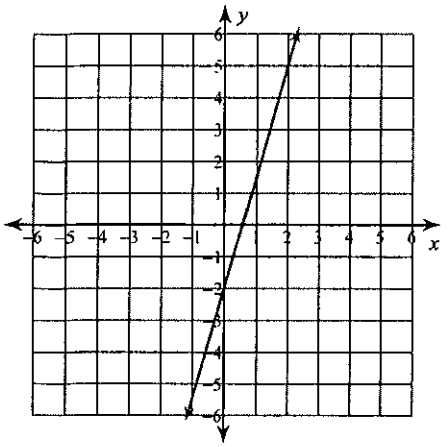
Name_____

Graphing Lines

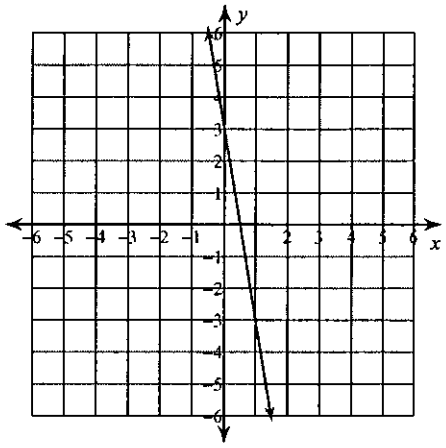
Date_____ Period____

Sketch the graph of each line.

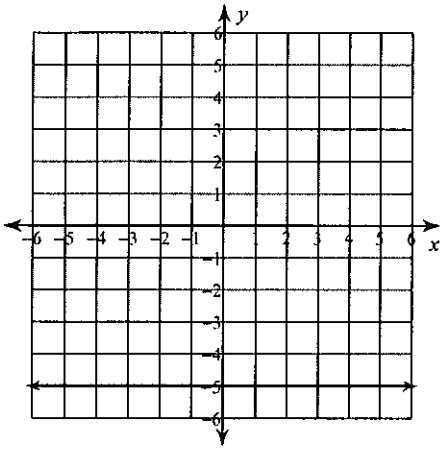
1) $y = \frac{7}{2}x - 2$



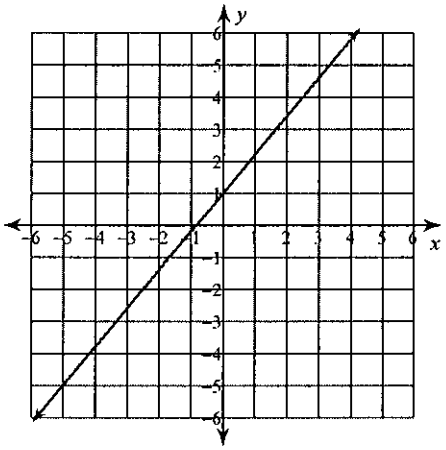
2) $y = -6x + 3$



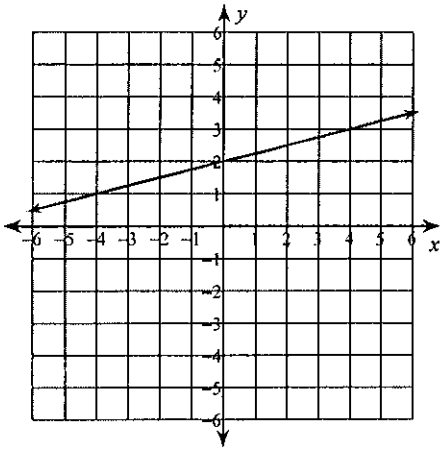
3) $y = -5$



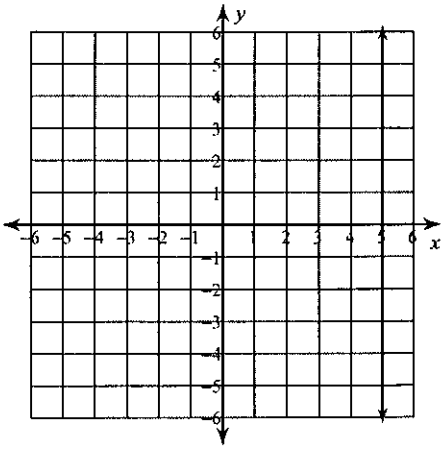
4) $y = \frac{6}{5}x + 1$



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



6) $x = 5$



Kuta Software - Infinite Algebra 1 Name_____

Finding Slope From Two Points

Date_____ Period____

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

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

$-\frac{1}{26}$

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

-4

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

$\frac{11}{2}$

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

$-\frac{8}{11}$

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

Undefined

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

0

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

$\frac{15}{14}$

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

$-\frac{2}{5}$

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Writing Linear Equations

Date_____ Period____

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

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

$y = \frac{3}{2}x + 8$

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

$y = \frac{13}{11}x + \frac{12}{11}$

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

$y = \frac{9}{7}x + 1$

4) $x - 3y = 6$

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

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

$y = -\frac{6}{5}x - 3$

6) $4x - y = 1$

$y = 4x - 1$

7) $11x - 4y = 32$

$y = \frac{11}{4}x - 8$

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

$y = \frac{11}{8}x + 6$

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

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

$7x - y = 5$

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

$x + y = 2$

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

$4x + y = -3$

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

$5x - 3y = 0$

Answers to Writing Equations of Parallel and Perpendicular Lines (ID: 1)

1) $y = x$

2) $x = 4$

3) $y = 3x - 10$

4) $y = -\frac{2}{5}x - \frac{1}{5}$

5) $y = -8x + 3$

6) $y = -x + 3$

7) $y = -\frac{9}{5}x - 4$

8) $y = \frac{1}{2}x + \frac{5}{2}$

9) $6x + y = 28$

10) $3x + y = -10$

11) $x + 5y = -7$

12) $3x - 2y = 7$

13) $3x - y = -1$

14) $9x + 5y = 15$

15) $x - y = 0$

16) $7x + 2y = 4$

17) $x + 3y = 0$

18) $6x + 5y = -10$

19) $y = 2x - 3$

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