Kuta Software - Infinite Algebra 2

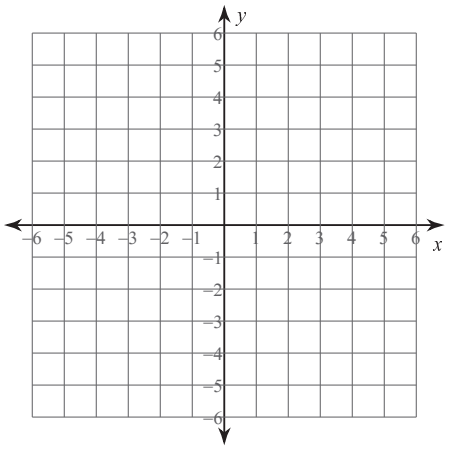
Name_____

Review of Linear Equations

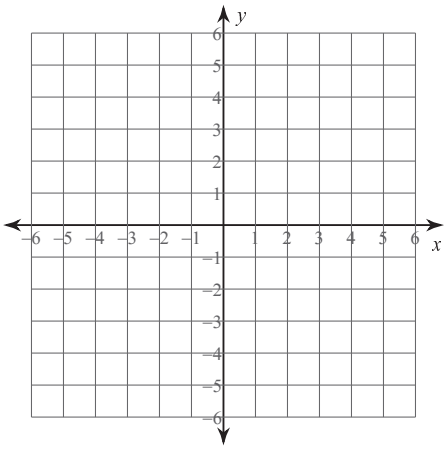
Date_____ Period____

Sketch the graph of each line.

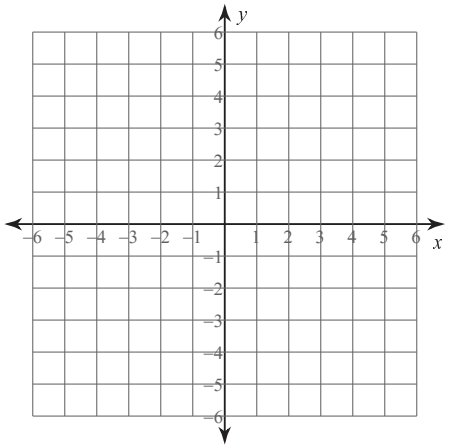
1) $y = -2x - 2$



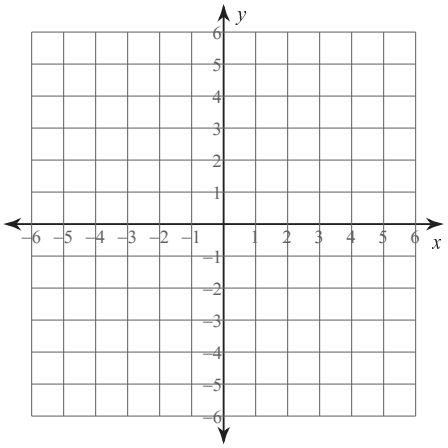
2) $y = -x - 2$



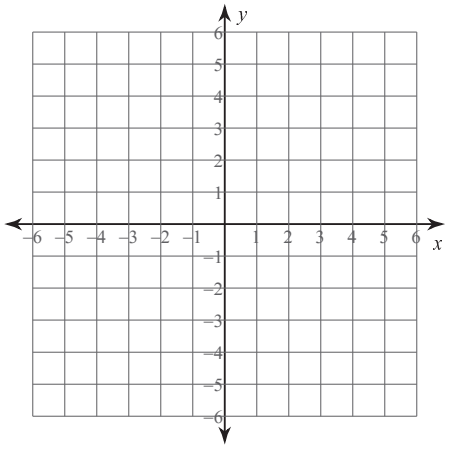
3) $2x - 5y = 5$



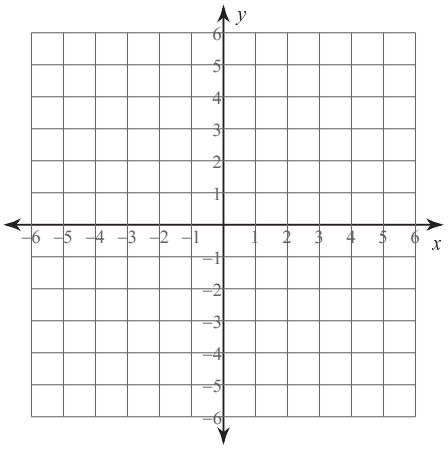
4) $x = -1$



5) $32 - 2x = 8y$



6) $0 = x + \frac{1}{4}y + \frac{1}{2}$



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

7) Slope = $-\frac{3}{5}$, y-intercept = 5

8) Slope = 9, y-intercept = 4

Write the standard form of the equation of each line.

9) $y = -\frac{7}{5}x + 1$

10) $y = \frac{3}{2}x + 5$

11) $y + 4 = -7(x - 1)$

12) $y + 1 = -(x + 3)$

13) $-10x - y = -5$

14) $-4 - 2y = -x$

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

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

16) through: $(-2, 4)$, slope = $-\frac{1}{7}$

Write the standard form of the equation of the line through the given points.

17) through: $(-3, 2)$ and $(0, -1)$

18) through: $(0, 4)$ and $(-1, -1)$

Write the standard form of the equation of the line described.

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

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

21) through: $(2, 4)$, perp. to $y = -\frac{2}{7}x - 5$

22) through: $(5, 0)$, perp. to $y = -x + 5$