Kuta Software - Infinite Algebra 2

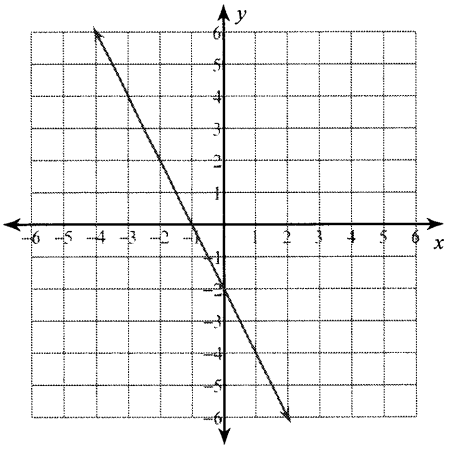
Name_____

Review of Linear Equations

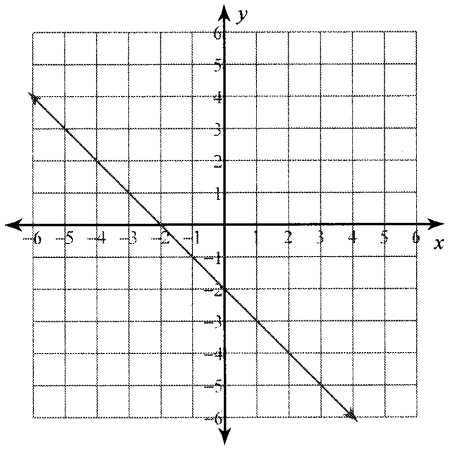
Date_____ Period____

Sketch the graph of each line.

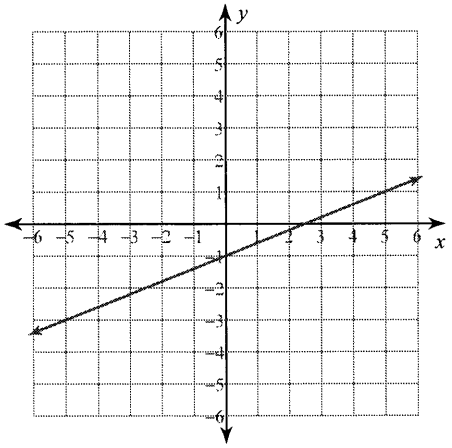
1) $y = -2x - 2$



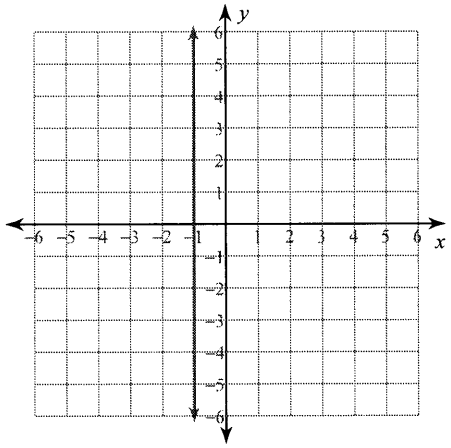
2) $y = -x - 2$



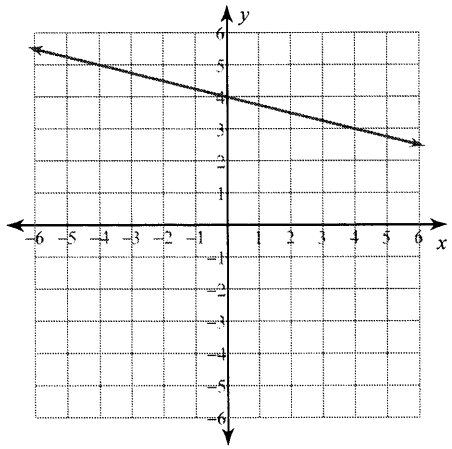
3) $2x - 5y = 5$



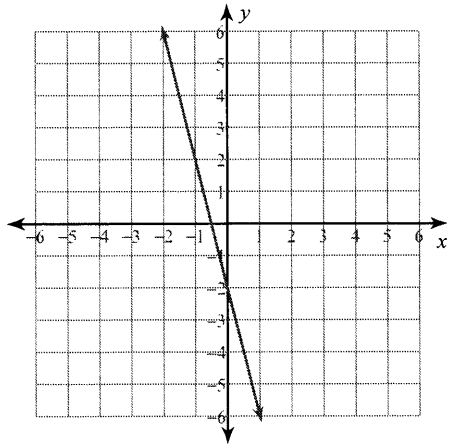
4) $x = -1$



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

$3x + 5y = 25$

8) Slope = 9, y-intercept = 4

$9x - y = -4$

Write the standard form of the equation of each line.

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

$7x + 5y = 5$

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

$3x - 2y = -10$

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

$7x + y = 3$

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

$x + y = -4$

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

$10x + y = 5$

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

$x - 2y = 4$

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

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

$x + y = 2$

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

$x + 7y = 26$

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

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

$x + y = -1$

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

$5x - y = -4$

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

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

$2x - 3y = 4$

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

$3x + 2y = 2$

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

$7x - 2y = 6$

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

$x - y = 5$

Kuta Software - Infinite Algebra 1

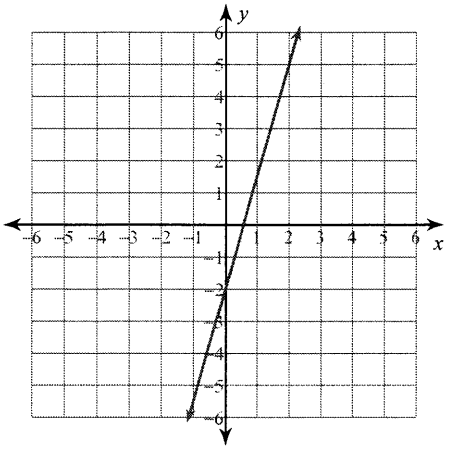
Name_____

Graphing Lines

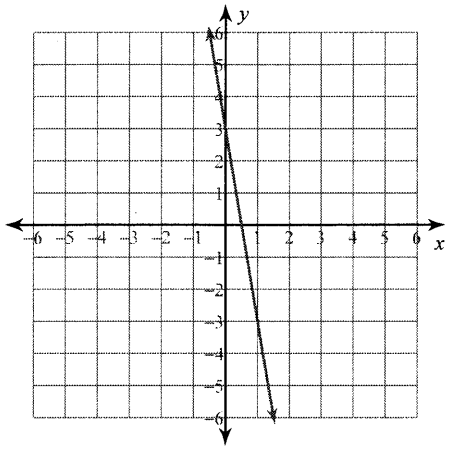
Date_____ Period____

Sketch the graph of each line.

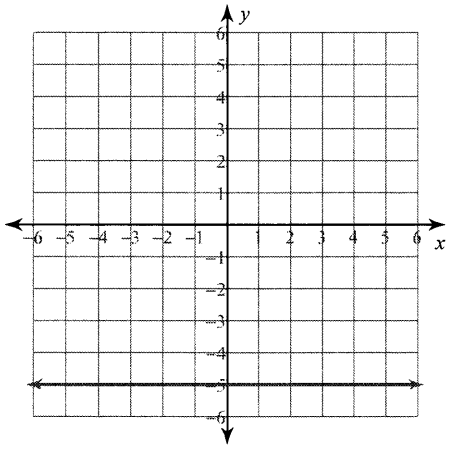
1) $y = \frac{7}{2}x - 2$



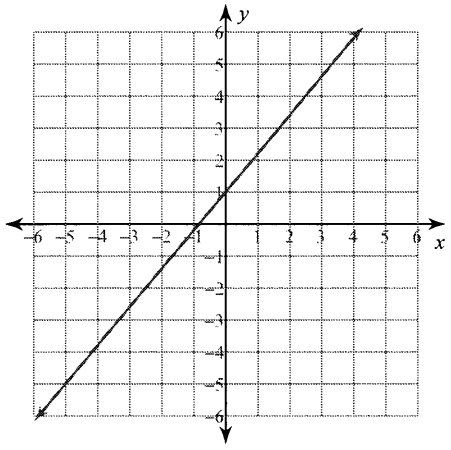
2) $y = -6x + 3$



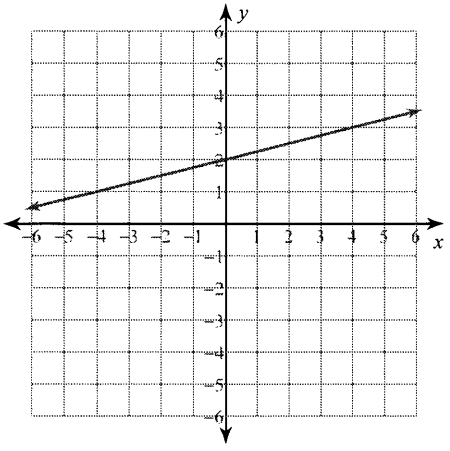
3) $y = -5$



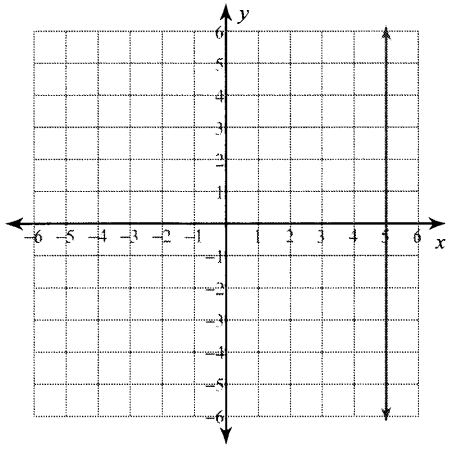
4) $y = \frac{6}{5}x + 1$



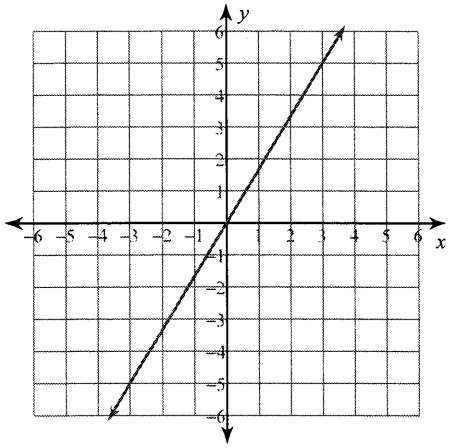
5) $y = \frac{1}{4}x + 2$



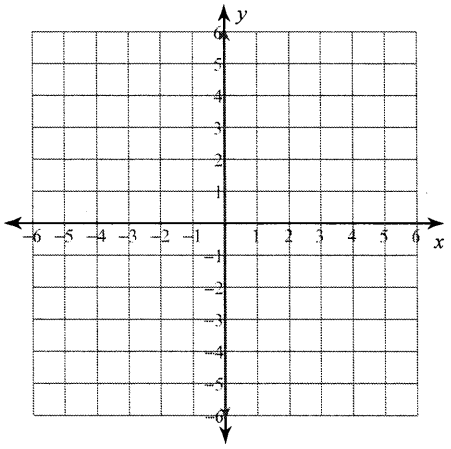
6) $x = 5$



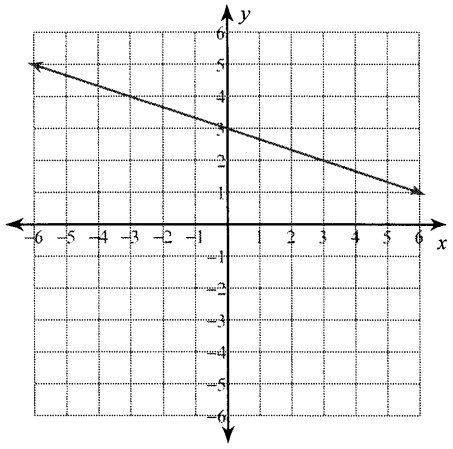
7) $y = \frac{5}{3}x$



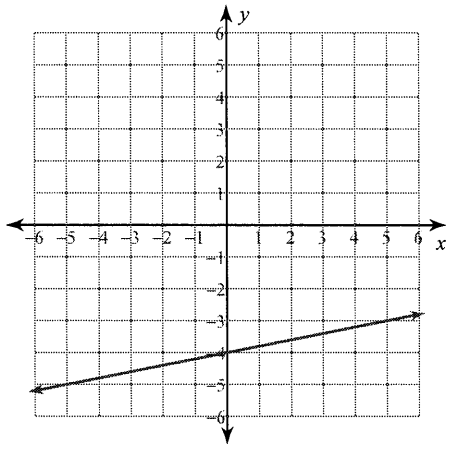
8) $x = 0$



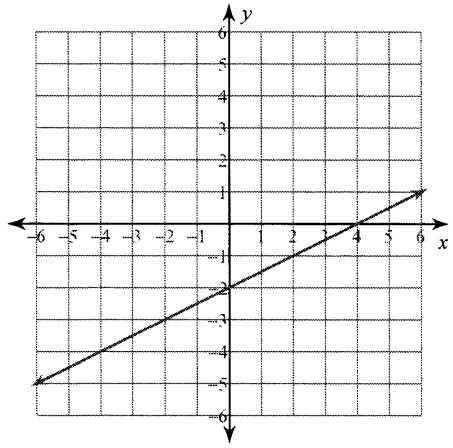
9) $y = -\frac{1}{3}x + 3$



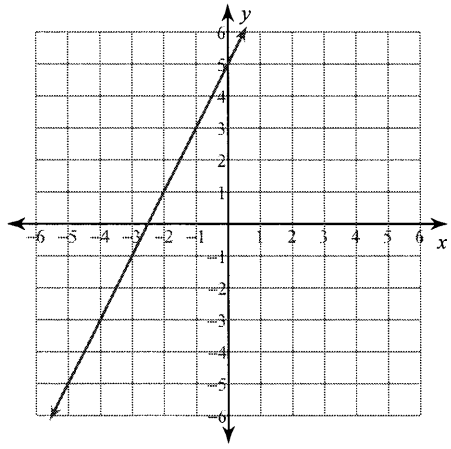
10) $y = \frac{1}{5}x - 4$



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



12) $y = 2x + 5$



Kuta Software - Infinite Algebra 1

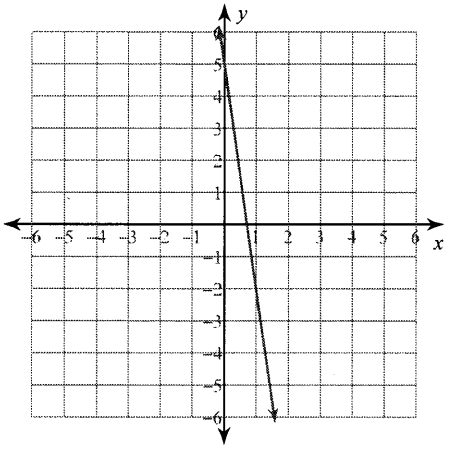
Name_____

Graphing Lines

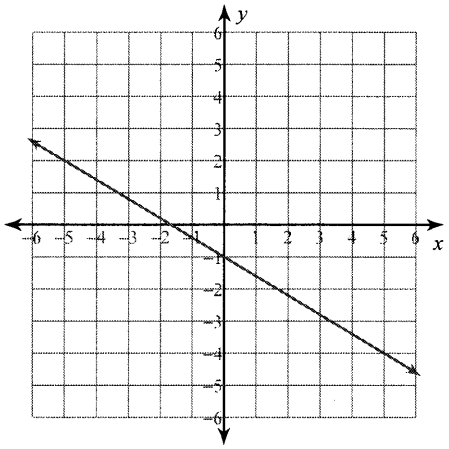
Date_____ Period____

Sketch the graph of each line.

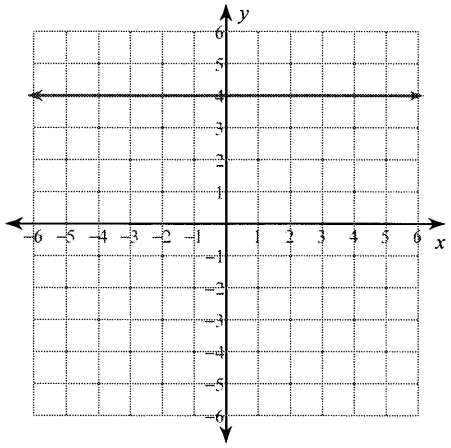
1) $7x + y = 5$



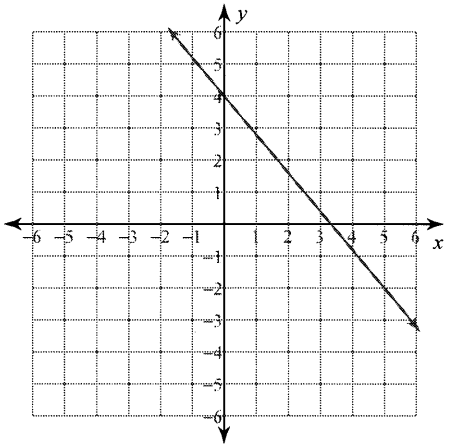
2) $3x + 5y = -5$



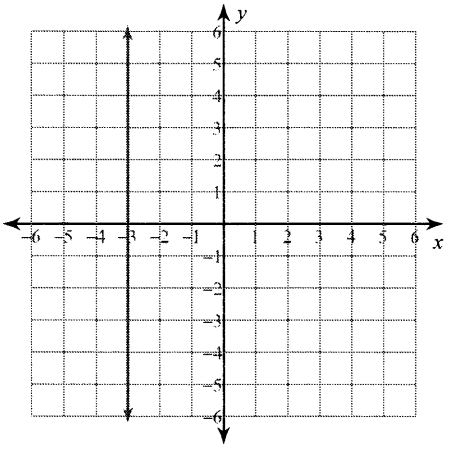
3) $y = 4$



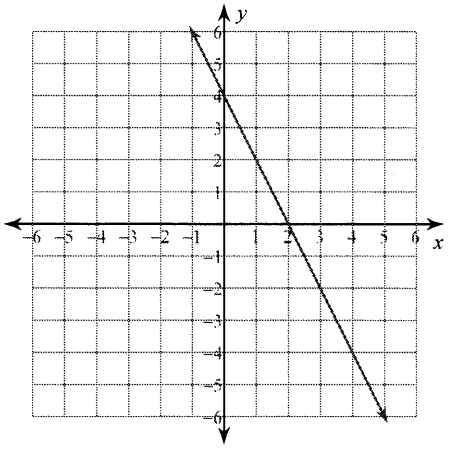
4) $6x + 5y = 20$



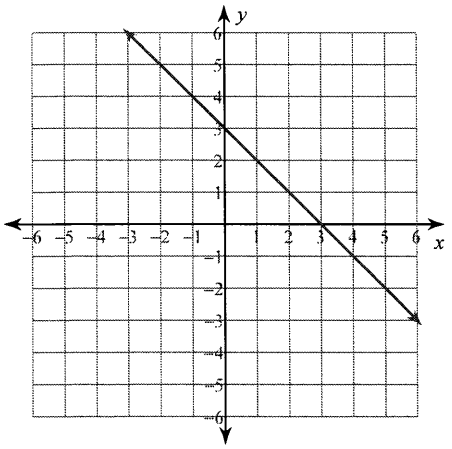
5) $x = -3$



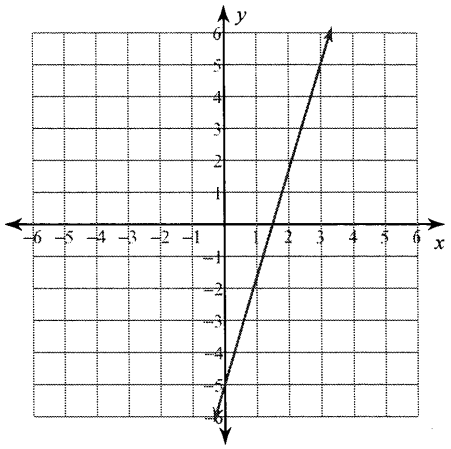
6) $2x + y = 4$



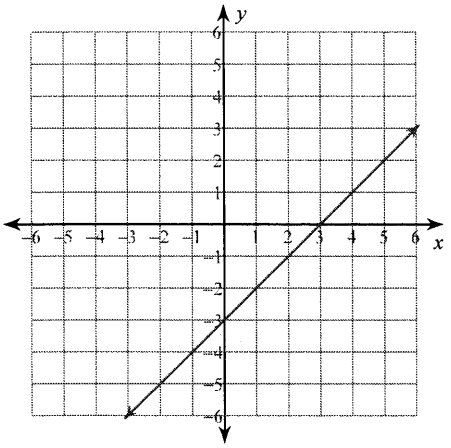
7) $x + y = 3$



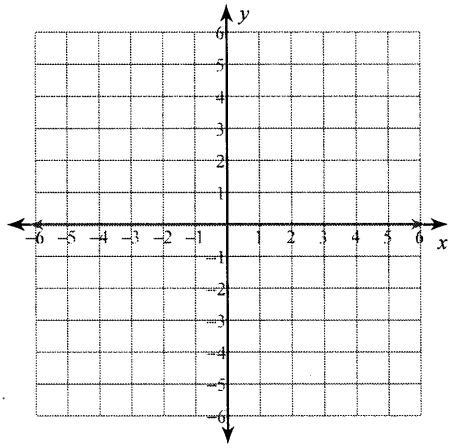
8) $10x - 3y = 15$



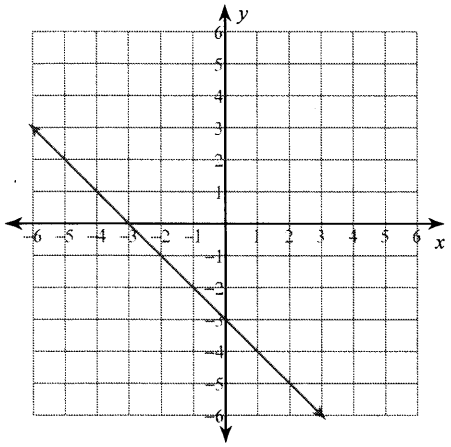
9) $x - y = 3$



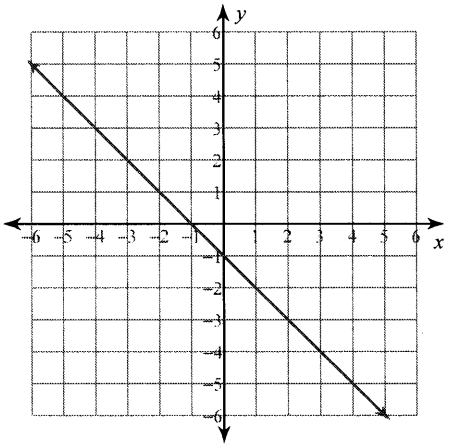
10) $y = 0$



11) $x + y = -3$



12) $x + y = -1$



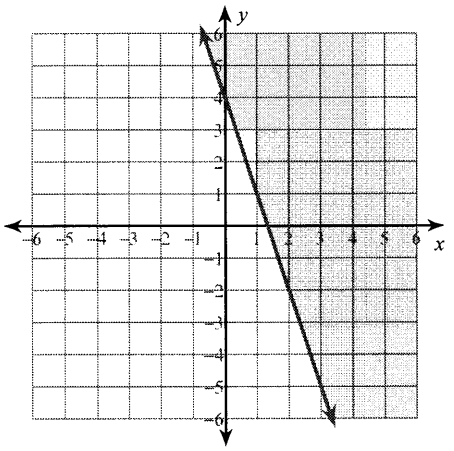
Kuta Software - Infinite Algebra 1 Name_____

Graphing Linear Inequalities

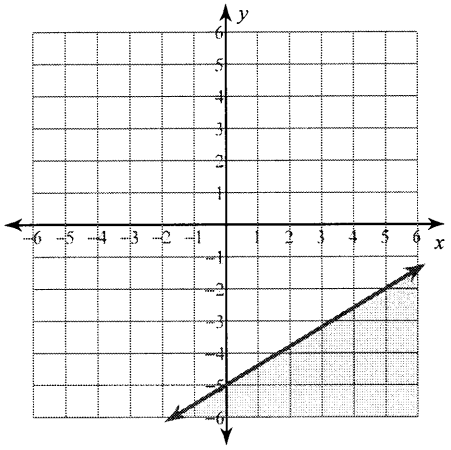
Date_____ Period____

Sketch the graph of each linear inequality.

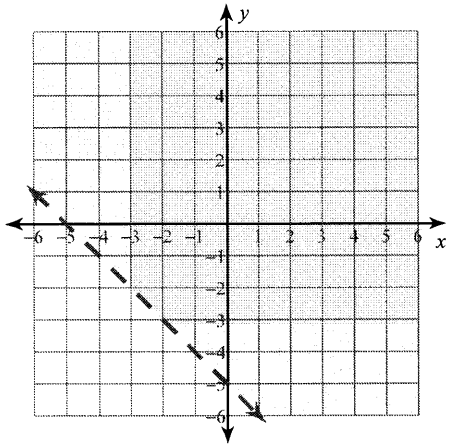
1) $y \geq -3x + 4$



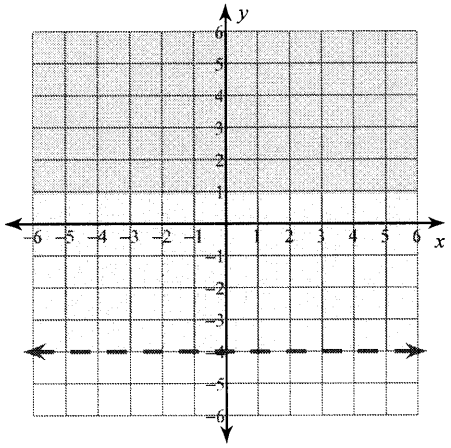
2) $y \leq \frac{3}{5}x - 5$



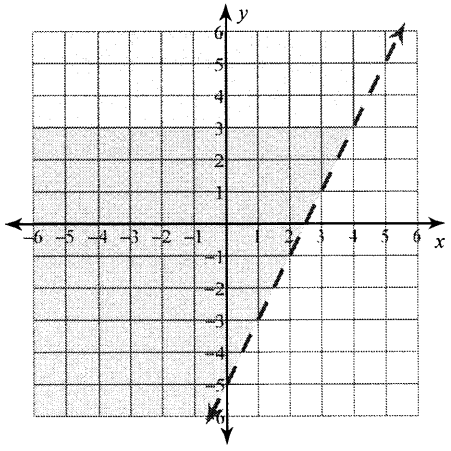
3) $y > -x - 5$



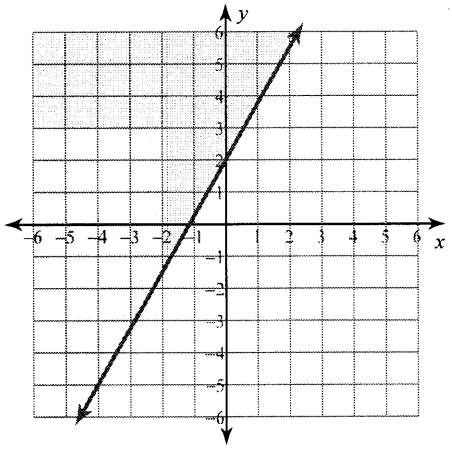
4) $y > -4$



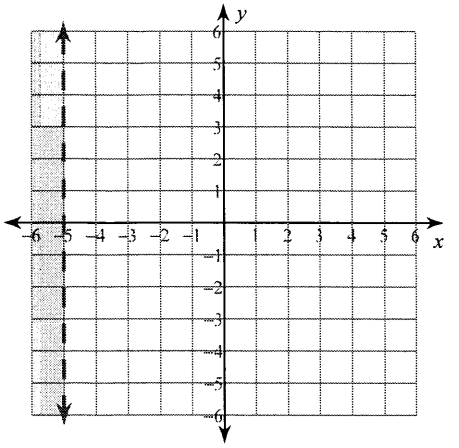
5) $y > 2x - 5$



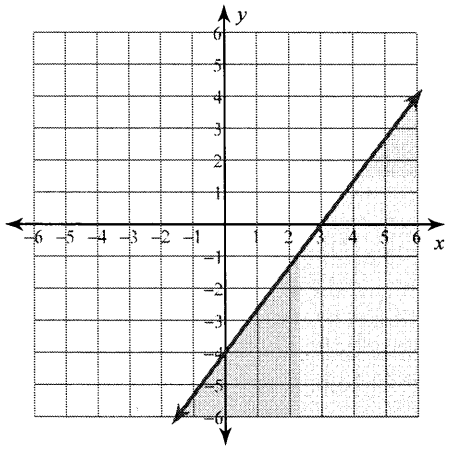
6) $y \geq \frac{7}{4}x + 2$



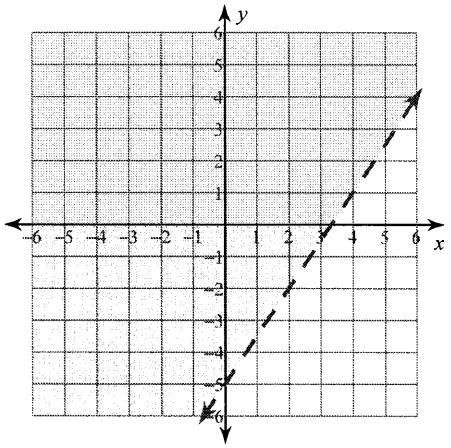
7) $x < -5$



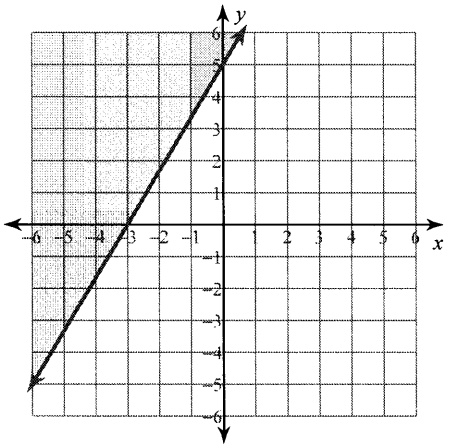
8) $y \leq \frac{4}{3}x - 4$



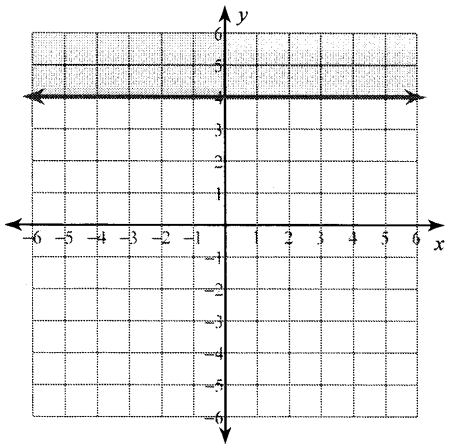
9) $3x - 2y < 10$



10) $5x - 3y \leq -15$



11) $y \geq 4$



12) $x - y > 2$