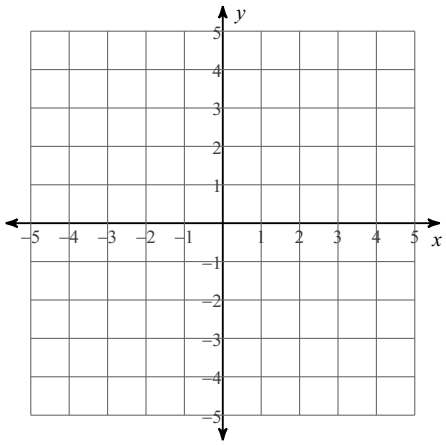
Algebra 1a - Mr. Allen-Black Name_____ ID: 1

Systems of Equations / Inequalities REVIEW

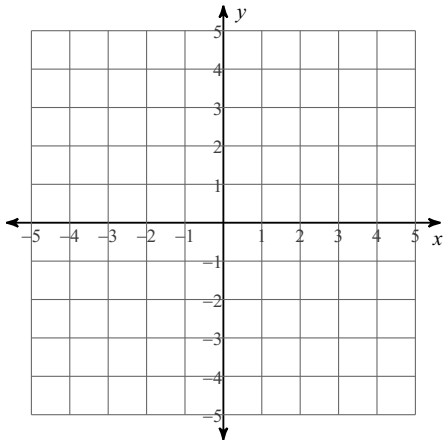
Date_____ Period____

Solve each system by graphing.

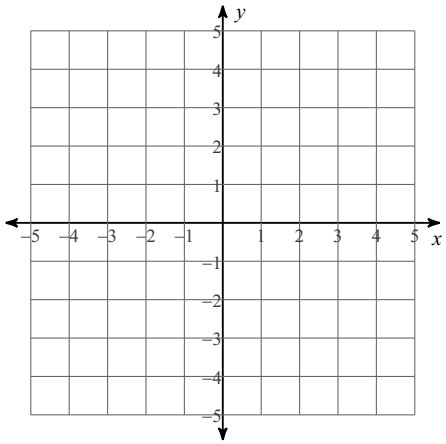
1) $y = -x + 4$
$y = x + 2$



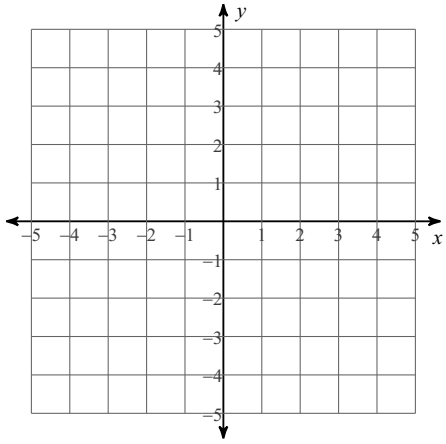
2) $y = \frac{5}{2}x - 1$
$y = \frac{5}{2}x - 3$



3) $y = \frac{7}{3}x - 3$
$y = \frac{1}{3}x + 3$

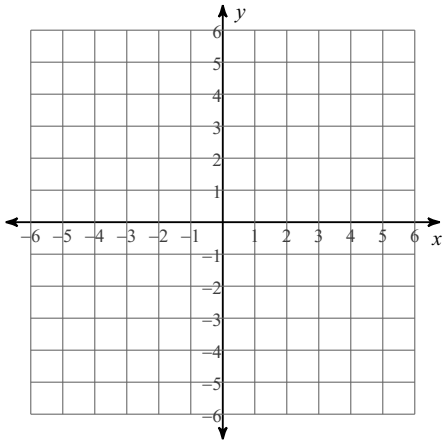


4) $y = x + 3$
$y = -x - 1$

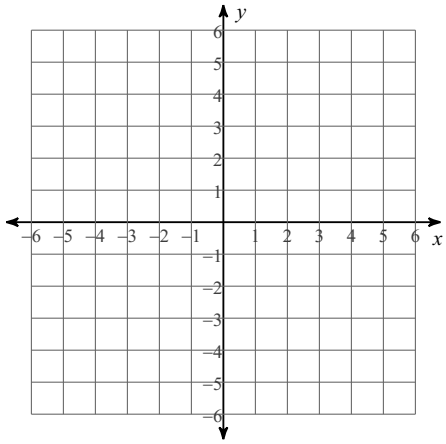


Sketch the graph of each linear inequality.

5) $y \leq -x + 5$

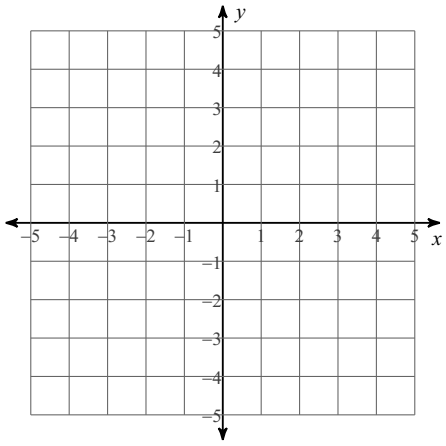


6) $y < 2x + 3$

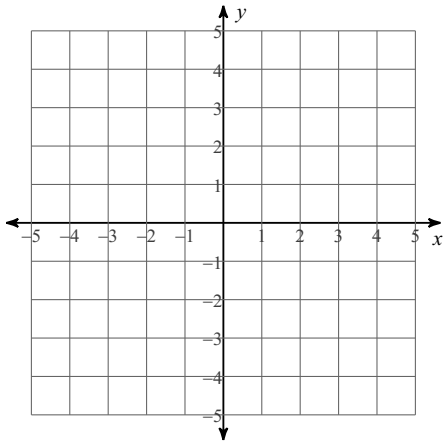


Sketch the solution to each system of inequalities.

7) $y < -4x + 1$
$y > -x - 2$



8) $y \leq x - 2$
$y < 6x + 3$



Solve each system by substitution.

9) $y = -7x + 22$
$y = 4x - 22$

10) $y = -5x - 19$
$y = 2x + 2$

11) $y = -3x - 21$
$y = 3$

12) $-6x - 4y = 20$
$y = -4x - 10$

13) $2x - 5y = -9$
$y = -3x - 22$

14) $3x - 5y = -7$
$y = 2x - 7$

Solve each system by elimination.

15) $-x + 2y = 4$
$x - 6y = -16$

16) $x + y = 12$
$-4x - y = -30$

17) $-8x - 4y = 16$
$-3x - 4y = 16$

18) $-4x + 2y = -4$
$-x + 2y = 8$

19) $-3x + 3y = 12$
$8x - 9y = -26$

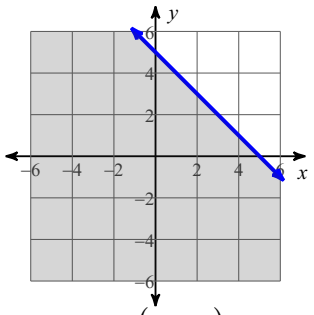
20) $20x + 5y = 30$
$-10x - 2y = -12$

Answers to Systems of Equations / Inequalities REVIEW (ID: 1)

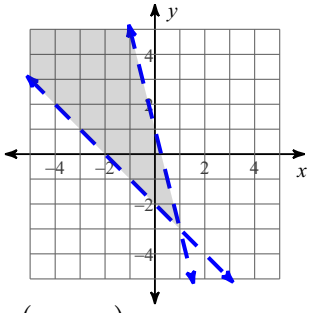
1) $(1, 3)$

3) $(3, 4)$

5)



7)



9) $(4, -6)$

11) $(-8, 3)$

13) $(-7, -1)$

15) $(2, 3)$

17) $(0, -4)$

19) $(-10, -6)$