



Chapter 6 Review 1

Use substitution to solve each system of equations:

1. $x = 2y$
 $3x - 5y = 8$

$(16, 8)$

2. $2a + 3b = 6$

$a = b - 7$

$(-3, 4)$

Use elimination to solve each system of equations:

3. $6x + 7y = 5$
 $2x - 3y = 7$

$(2, -1)$

4. $5m + 2n = -8$
 $4m + 3n = 2$

$(-4, 6)$

Solve each system by the method of your choice.

5. $d = 2c + 9$
 $c + 2d = 8$

$(0, 9)$

6. $2x - 2y = -15$
 $x = 5 - 4y$

$(-10, 2.5)$

7. $5x - 2y = 23$
 $5x + 2y = 17$

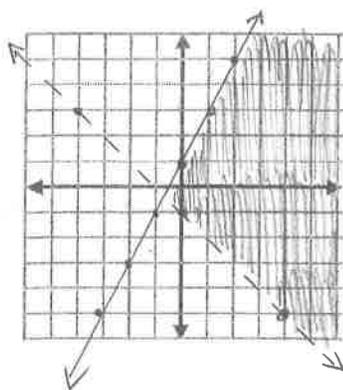
$(4, -\frac{3}{2})$

8. $3x + 5y = 2x$
 $x + 3y = y$

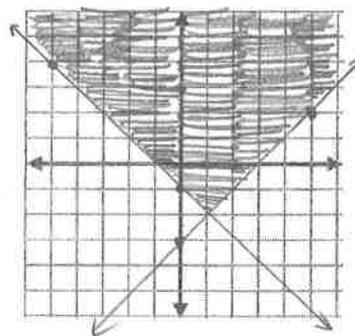
$(0, 0)$

Solve each system of inequalities by graphing. Then name one point in the shaded region and check it in both inequalities to see that it does work.

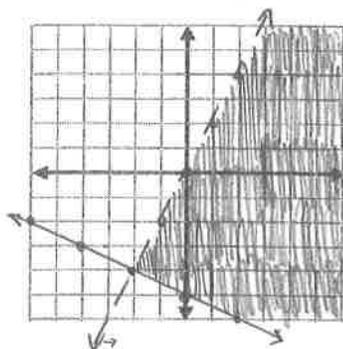
9. $y > -x - 1$
 $y \leq 2x + 1$



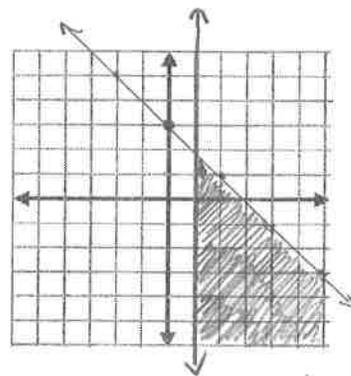
10. $y \geq x - 3$
 $y \geq -x - 1$



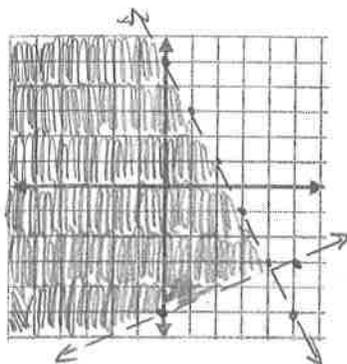
11. $y < 2x$
 $x + 2y \geq -10$



12. $x \geq 1$
 $y + x \leq 3$



13. $2x + y < 5$
 $2x - 5y < 25$



14. $x - 2y \leq -4$
 $4y < 2x - 4$

