

Algebra 2 – Systems of Equations Worksheet

Name: _____ Date: _____

Solve the following systems of equations. Use whichever method you would like, though I will put them in groups based on which way I recommend you solve them.

Recommended Method: Graphing Calculator

1. $y = -\frac{2}{5}x + 1$; $y = \frac{3}{5}x - 4$

2. $y = -\frac{2}{3}x + 4$; $y = 3x - 7$

3. $y = 3x - 4$; $y = -\frac{2}{3}x + 1$

Recommended Method: Substitution

4. $4x - y = 8$; $y = 4x + 3$

5. $5x + y = 10$; $y = 5x + 10$

6. $6x - y = 18$; $y = \frac{1}{6}x + 3$

Recommended Method: Elimination

7. $x + 6y = 1$

$-2x - 11y = -4$

9. $12x + 3y = 8$

$-6x - \frac{3}{2}y = 4$

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

$$-6x + 10y = 8$$

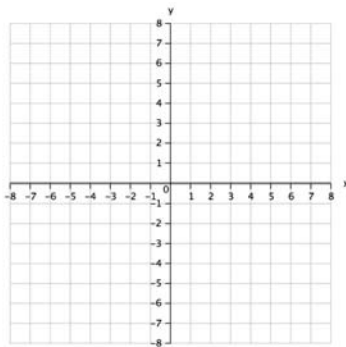
$$10. x + 3y = -2$$

$$-x - 2y = 4$$

Systems of Inequalities:

$$11. y > -\frac{3}{4}x - 1$$

$$y > 3x + 5$$



$$12. 5x - 2y > -10$$

$$y \leq -\frac{1}{3}x + 2$$

