

8.1 Solving Systems of Linear Equations by graphing

A. Solve by graphing:

1. $x - 2y = 10$

$3x - y = 0$

2. $x + y = 5$

$3x - y = 3$

3. $x - y = 4$

$2x + y = -4$

4. $4y = x + 18$

$y = -2x$

5. $x + 2y = -6$

$3x + 2y = -34$

6. $2x - 5y = 40$

$-6x + 5y = -60$

7. $x - 4 = 0$

$3y + 9 = 0$

8. $y = 0.5x + 4$

$y = 0.8x + 1$

9. $x + y = 0$

$3x + y = -4$

B. **Without graphing**, verify the following are solutions to the systems of equations.1. $(30, -15)$ is a solution of the system $3x + 2y = 60$ and $3x - 5y = -150$.2. $\left(\frac{1}{2}, \frac{1}{3}\right)$ is a solution of the system $2x + 3y = 2$ and $4x - 3y = 1$.

C. Textbook questions: page 426 #1,5ac,13,15

AnswersA) 1. $(-2, -6)$ 2. $(2, 3)$ 3. $(0, -4)$ 4. $(-2, 4)$ 5. $(-14, 4)$ 6. $(5, -6)$ 7. $(4, -3)$ 8. $(10, 9)$ 9. $(-2, 2)$

B) 1. Not a solution 2. Is a solution