

Systems of Linear Equations – 408

Solve the systems

1. $4x - 2y = -2$
 $y = x + 3$

2. $5x - 3y = -4$
 $x + 2y = 7$

3. $6x + 3y = -1$
 $9x + 5y = 1$

4. $4x + 5y = -3$
 $-8x - 10y = 3$

5. $3x - 2y = 1$
 $-6x + 4y = -2$

6. $7x - 6y = 13$
 $6x - 5y = 11$

7. $\frac{1}{4}x - \frac{1}{6}y = -2$
 $-\frac{1}{6}x + \frac{1}{5}y = 4$

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

9. $\frac{2}{5}x - \frac{2}{3}y = 0$
 $y = \frac{3}{5}x$

10. $2x - 3y = 14$
 $5x - 6y = 32$

SOLUTIONS

1. $(2, 5)$

2. $(1, 3)$

3. $(-8/3, 5)$

4. no solution

5. $\left(x, \frac{3}{2}x - \frac{1}{2}\right)$

6. $(1, -1)$

7. $(12, 30)$

8. $(1, 3)$

9. $\left(x, \frac{3}{5}x\right)$

10. $(4, -2)$