

Find the solutions to the following systems graphically.

1. 
$$\begin{aligned} 3x - 5y &= -2 \\ 4x + 3y &= 7 \end{aligned}$$

2. 
$$\begin{aligned} 2x - 3y &= 0 \\ 6x - 9y &= 4 \end{aligned}$$

3. 
$$\begin{aligned} x - 4y &= 2 \\ -3x + 12y &= -6 \end{aligned}$$

4. 
$$\begin{aligned} 2x + 7y &= 11 \\ 5x - 10y &= 0 \end{aligned}$$

Find the solutions to the following systems by using substitution.

5. 
$$\begin{aligned} 2x - 2y &= 1 \\ x + 3y &= -3 \end{aligned}$$

6. 
$$\begin{aligned} 2x - 4y &= 1 \\ 6x - 9y &= 12 \end{aligned}$$

7. 
$$\begin{aligned} x - 3y &= 2 \\ -2x + 6y &= 4 \end{aligned}$$

8. 
$$\begin{aligned} x + 5y &= 10 \\ 3x + 15y &= 30 \end{aligned}$$

1.  $(1, 1)$

2. No Solution

3. Dependent (All points on line are solutions)

4.  $(2, 1)$

5.  $\left(-\frac{3}{8}, -\frac{7}{8}\right)$

6.  $\left(\frac{13}{2}, 3\right)$

7. No Solution

8. Dependent (All points on line are solutions)