

Chapter 3 Section 1
Systems of Linear Equations in Two Variables

Solve the system by graphing:

$$1) \begin{aligned} y &= -\frac{1}{3}x + 11 \\ y &= 2x + 4 \end{aligned}$$

$$2) \begin{aligned} y &= 3x + 8 \\ y &= 2x + 17 \end{aligned}$$

Solve the system by substitution:

$$3) \begin{aligned} y &= x + 7 \\ y &= 2x + 3 \end{aligned}$$

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

$$5) \begin{aligned} y &= 2x - 5 \\ 3x + y &= 10 \end{aligned}$$

$$6) \begin{aligned} y &= 7 - 2 \\ -3x + y &= -14 \end{aligned}$$

Solve by Elimination

$$7) \begin{aligned} 2x + 5y &= 24 \\ 3x - 5y &= 11 \end{aligned}$$

$$8) \begin{aligned} 3x + 5y &= 27 \\ 6x + 7y &= 39 \end{aligned}$$

Solve the system of equations

$$9) \begin{aligned} -9x - 7y &= 8 \\ x - 7y &= 8 \end{aligned}$$

$$10) \begin{aligned} 8x - y &= 20 \\ y &= 8x + 4 \end{aligned}$$