

In previous coursework you have learned 3 different techniques for solving systems of equations. These techniques are often referred to as substitution, elimination and graphing. Please review these 3 different methods of solving by practicing the problems below. While you are working the problems be sure to think about the most efficient method to solve each system. If you need a reference, the textbook covers this material in section 3.1 (page 136).

Solve by substitution.

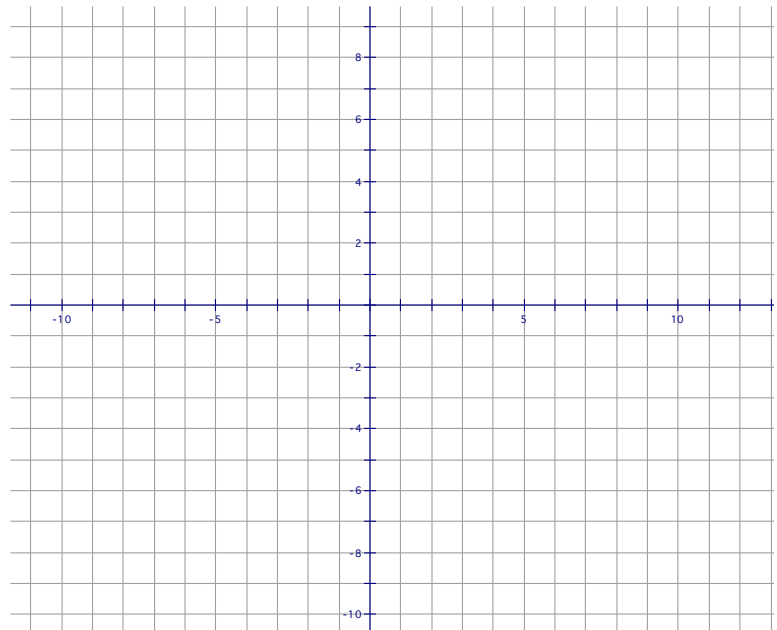
$$\begin{aligned}y &= -3 \\ -5x + 8y &= 11\end{aligned}$$

Solve by elimination.

$$\begin{aligned}5x - 6y &= -22 \\ -15x - 10y &= 10\end{aligned}$$

Solve by graphing.

$$\begin{aligned}y - 3 &= \frac{3}{2}(x - 4) \\ -3x + 3y &= -15\end{aligned}$$



Solve each system. Use the most efficient method!

a.
$$\begin{aligned} 16x - 5y &= 30 \\ -2x + 3y &= -18 \end{aligned}$$

b.
$$\begin{aligned} y &= 7x + 15 \\ -x + 5y &= 7 \end{aligned}$$

c.
$$\begin{aligned} 4x - 5y &= 12 \\ -8x + 9y &= -28 \end{aligned}$$