

# Solving Systems of Linear Equations (Substitution)

scan for answers



Chapter 5: Worksheet 2

Level 1 - Solve a system of equations by substituting one into another

Level 2 - Rearrange an equation in order to solve a system by substitution

## Level 1

**Solve for the unknown variables in these systems of linear equations.**

a) 
$$\begin{cases} y = 5 \\ x + y = 12 \end{cases}$$

b) 
$$\begin{cases} y = -6 \\ y + 2x = 4 \end{cases}$$

c) 
$$\begin{cases} y = -3 \\ 7 + 4y = x \end{cases}$$

## Level 2

**Solve for the unknown variables in these systems of linear equations.**

a) 
$$\begin{cases} x - 5y = 7 \\ 2x + 7y = -20 \end{cases}$$

b)

c) 
$$\begin{cases} -2x - y = -5 \\ x - 8y = -23 \end{cases}$$