

Name : \_\_\_\_\_

## Systems of Equations - Substitution Method

Sheet 3

Solve each system of equations using substitution method.

1)  $9p + 8q = 58$   
 $-p + 5q = 23$

\_\_\_\_\_

2)  $2a + 7b = 13$   
 $8b = 2 - a$

\_\_\_\_\_

3)  $10 = 5c + 3d$   
 $9 = 2d + 4c$

\_\_\_\_\_

5)  $3r = 1 - s$   
 $7s = 4 - 6r$

\_\_\_\_\_

7)  $7y + 50 = 4z$   
 $8y + 5z - 29 = 0$

\_\_\_\_\_

8)  $-x - y = 3$   
 $2 = 3x - y$

\_\_\_\_\_

# PREVIEW

Gain complete access to the largest  
collection of worksheets in all subjects!

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

**Systems of Equations - Substitution Method**

Solve each system of equations using substitution method.

$$\begin{aligned} 1) \quad & 9p + 8q = 58 \\ & -p + 5q = 23 \end{aligned}$$

**(2, 5)**

$$\begin{aligned} 2) \quad & 2a + 7b = 13 \\ & 8b = 2 - a \end{aligned}$$

**(10, -1)**

$$\begin{aligned} 3) \quad & 10 = 5c + 3d \\ & 9 = 2d + 4c \end{aligned}$$

 **$\left(\frac{7}{2}, -\frac{5}{2}\right)$** 

$$\begin{aligned} 5) \quad & 3r = 1 - s \\ & 7s = 4 - 6r \end{aligned}$$

 **$\left(\frac{1}{5}, \frac{2}{5}\right)$** 

$$\begin{aligned} 7) \quad & 7y + 50 = 4z \\ & 8y + 5z - 29 = 0 \end{aligned}$$

**(-2, 9)**

$$\begin{aligned} 8) \quad & -x - y = 3 \\ & 2 = 3x - y \end{aligned}$$

 **$\left(-\frac{1}{4}, -\frac{11}{4}\right)$** 

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)