Name : _____

Sheet 3

Systems of Equations - Substitution Method

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

Name : _____

Answer key

Sheet 3

Systems of Equations - Substitution Method

Solve each system of equations using substitution method.

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

(2, 5)

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

(10, –1)

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

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

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

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

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

(–2, 9)

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

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