Systems of Equations - Substitution Method

Solve each system of equations using substitution method.

1)
$$5x + 2y = 16$$

 $x + 8y = 26$

2)
$$c + 6d = 7$$

 $-c - 2d = -2$

3)
$$8p + 7q = 43$$

 $2p - 7 = -q$

4)
$$-5a + b = 8$$

 $7a + 9b = -32$

5)
$$-5 = 2m + 6n$$

 $4m + 5n - 18 = 0$

6)
$$v = 2 - 6u$$

 $9u + 2v = 3$

7)
$$r + 2s = 4$$

 $3s + r = 1$

8)
$$6y + 5z = 0$$

 $3z = 7y + 53$

Systems of Equations - Substitution Method

Sheet 1

Solve each system of equations using substitution method.

1)
$$5x + 2y = 16$$

 $x + 8y = 26$

2)
$$c + 6d = 7$$

 $-c - 2d = -2$

(2, 3)

$$\left(-\frac{1}{2},\frac{5}{4}\right)$$

3)
$$8p + 7q = 43$$

 $2p - 7 = -q$

4)
$$-5a + b = 8$$

 $7a + 9b = -32$

(1, 5)

5)
$$-5 = 2m + 6n$$

 $4m + 5n - 18 = 0$

6)
$$v = 2 - 6u$$

 $9u + 2v = 3$

$$\left(\frac{19}{2}, -4\right)$$

$$\left(\frac{1}{3},0\right)$$

7)
$$r + 2s = 4$$

 $3s + r = 1$

8)
$$6y + 5z = 0$$

 $3z = 7y + 53$