Systems of Equations

Answer Key

Solve each system of equations.

1)
$$-5r - 4s = -9$$

 $r + 2s = -3$

2)
$$6x + 3y = 15$$

 $-2x + 2y = 4$

$$r = 5$$
; $s = -4$

$$x = 1; y = 3$$

3)
$$5m + 4n - 8 = 0$$

 $2n - 5m - 1 = 0$

4)
$$2t - u = 6$$

 $t + 5u + 8 = 0$

$$m=\frac{2}{5}; n=\frac{3}{2}$$

$$t = 2; u = -2$$

5)
$$4p + q = 18$$

 $-p - q = -12$

6)
$$8a = -3b - 1$$

 $4a - b = 7$

$$p = 2; q = 10$$

$$a = 1; b = -3$$

7)
$$7c + 3d = 13$$

 $-7c + 6d = 5$

8)
$$q - 7r = 16$$

 $q - r = 10$

$$c = 1; d = 2$$

$$q = 9; r = -1$$