Two Variables: S1

u = 1; *v* = 1

Answer Key

Systems of Equations

Solve each system of equations.

1) 4p + q = 162) 3u + 9v = 122p + q = 143 = -3u + 6v

3) t - u = 11 2t + 8 = -u4) -7m + 5n = 194m - 5n = -13

$$t = 1; u = -10$$
 $m = -2; n = 1$

5) 6a - b = -13a + b = -16) 4r = -8s-4r - 4s = 1

$$a = -2; b = 1$$
 $r = -\frac{1}{2}; s = \frac{1}{4}$

7)
$$-5x - 10y - 17 = 0$$

 $-y + 5x = -6$

$$x = -\frac{7}{5}; y = -1$$

8)
$$2c - 3d = -4$$

 $-4c + 3d = 10$

 $c = -3; d = -\frac{2}{3}$