Systems of Equations

Answer Key

Solve each system of equations.

1) $2a + b - 20 = 0$
$6a - 5b = 12$

$a = 7; b = 6$

2) $5d + 8c = 4$
$d - 2c = 8$

$c = -2; d = 4$

3) $-21 = -7p - q$
$-15 = -5p - q$

$p = 3; q = 0$

4) $4u + 5v - 35 = 0$
$4u + v - 15 = 0$

$u = \frac{5}{2}; v = 5$

5) $8r - 7s = 13$
$-2s = -4 - r$

$r = 6; s = 5$

6) $-4n = -9m + 8$
$5n = -8m - 10$

$m = 0; n = -2$

7) $-3u + 54 = 6t$
$-2u + 60 = 7t$

$u = 2; t = 8$

8) $9x + 5y = 5$
$5y = -5 + 6x$

$x = \frac{2}{3}; y = -\frac{1}{5}$