

Systems of Equations - Substitution Method

Solve each system of equations using substitution method.

1) $-q - 3r + p = -18$
 $5p = 11 - 4q + r$
 $p - q = r - 10$

2) $-3c = 41 + d - 4b$
 $-c + b + 2d = 8$
 $24 + c = 7b + 3d$

3) $6r + 6s - t + 4 =$
 $-2r = 11 - 2t - 4$
 $3 - 2t = 8r - 2s$

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5) $-5 = 4a - b - 3c$
 $a + 20 = 7c - 5b$
 $10a = 19 - 6b -$

7) $8u - s + 2t = 50$
 $s - t + u = 12$
 $3t = 18 + u - 7s$

8) $w + 2x - 3y = 4$
 $-4x = 6w - 9y - 17$
 $21 = 3w + 2x + 8y$

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1) $-q - 3r + p = -18$
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2) $-3c = 41 + d - 4b$
 $-c + b + 2d = 8$
 $24 + c = 7b + 3d$

$(-1, 5, 4)$

$(3, -9, -2)$

3) $6r + 6s - t + 4 =$
 $-2r = 11 - 2t -$
 $3 - 2t = 8r - 2s$

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

5) $-5 = 4a - b - 3c$
 $a + 20 = 7c - 5b$
 $10a = 19 - 6b -$

$(1, 0, 3)$

7) $8u - s + 2t = 50$
 $s - t + u = 12$
 $3t = 18 + u - 7s$

$(4, -1, 7)$

8) $w + 2x - 3y = 4$
 $-4x = 6w - 9y - 17$
 $21 = 3w + 2x + 8y$

$(3, 2, 1)$

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