

## Systems of Equations - Cramer's Rule

Solve each system of equations using Cramer's rule.

1)  $6x + 2y - z = 23$   
 $-20 = y + 3z$   
 $x - y - z = 21$

2)  $2a + 3b = 21 + c$   
 $-9 + 3c = 4a + b$   
 $3a - 5c = -26 + 2b$

3)  $-9t = -25 - 6r - s$   
 $-4r - s = 2t - 1$   
 $-3t = 34 - 10r + s$

5)  $t + u = 4 + 2s$   
 $-4s + 2t - u = 8$   
 $-6s - 3t + u = 0$

7)  $3b + 7c - d = -15$   
 $b - c + 5d = 19$   
 $47 = 9b - 2c - 3d$

8)  $-v + w = -3 - 7u$   
 $5v - w = 26 - 2u$   
 $v - 2w = -24 - 8u$

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