

## Systems of Equations - Cramer's Rule

Solve each system of equations using Cramer's rule.

1)  $a + 6b = -27 + c$   
 $c - 2b = -3a - 17$   
 $a + 2 = b - 3c$

2)  $u - w + 3v = -10$   
 $2u + 13 = 8v + 5w$   
 $w = -23 - u - 4v$

3)  $x + 4y - 2z = 0$   
 $4z = 5 - 3x + 8y$   
 $7x + 2y - 2z = 7$

5)  $8w - 3x - y = 38$   
 $2w + 9x - 5y = 4$   
 $w - 4x + 3y = -1$

7)  $3q = -4p + 2r + 4$   
 $7p + q = 40 + r$   
 $2q + r = -2 - p$

8)  $-d - 14 = -4b - 8c$   
 $b + 8c = 4$   
 $-b + 7c = -d - 2$

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