

Systems of Equations - Elimination Method

Solve each system of equations using elimination method.

1) $-58 = 8a - 5b - c$
 $-7a + 4b + 3c = 44$
 $2a - 9b - 6c = -5$

2) $-2p + 7q - 4r = -35$
 $-9q + r = 27$
 $-8p + 3q - 5r = 9$

3) $3u = 17 + v - 9w$
 $-2u + 5v + 8w = 37$
 $6v = -14 - 4u - 3w$

5) $-4w + 9x - 2y = 31$
 $6w + 7x - y = 5$
 $3w + 5x + 8y = 8c$

7) $r + 6q - 3s = -18$
 $8q + 9r + 5s = -30$
 $-2s + 4r - 7q = -64$

8) $-7x + 8y + 5z = 26$
 $0 = -3x - 2y + 4z$
 $-9x - y + 4z = 48$

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$(-7, 1, -3)$

$(-\frac{15}{2}, -2, 9)$

3) $3u = 17 + v - 9w$
 $-2u + 5v + 8w = 37$
 $6v = -14 - 4u - 8w$

$(4, -5, 0)$

5) $-4w + 9x - 2y = 31$
 $6w + 7x - y = 5$
 $3w + 5x + 8y = 8c$

$(5, 3, -1)$

7) $r + 6q - 3s = -18$
 $8q + 9r + 5s = -30$
 $-2s + 4r - 7q = -64$

8) $-7x + 8y + 5z = 26$
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 $-9x - y + 4z = 48$

$(2, -9, 7)$

$(-8, 0, -6)$

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