

Systems of Equations - Elimination Method

Solve each system of equations using elimination method.

1) $-2b = 19 + 7c - 9d$
 $8b - 5c + 3d = -13$
 $-c = -38 - 4b + 6d$

2) $5u - 3w = -11$
 $-2u + 7v - 4w = 3$
 $64 = -9u + 8v + 6w$

3) $-2r - 5q - 8p =$
 $q + 4p - 7r = -4$
 $6p - 9q + 2r = 3$

PREVIEW

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5) $9s - 2t + u = 42$
 $53 = 6s - 5t$
 $7s - 5t + 8u = 6$

7) $7x - y + 8z = -16$
 $9x + 4y - 2z = -26$
 $-3x + 5y = -40$

8) $-6a + 4b + 7c = 21$
 $-5a = -24 - 9b - 8c$
 $3b + 2c = -14 + a$

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Solve each system of equations using elimination method.

$$\begin{aligned} 1) \quad & -2b = 19 + 7c - 9d \\ & 8b - 5c + 3d = -13 \\ & -c = -38 - 4b + 6d \end{aligned}$$

$$\begin{aligned} 2) \quad & 5u - 3w = -11 \\ & -2u + 7v - 4w = 3 \\ & 64 = -9u + 8v + 6w \end{aligned}$$

 $(-1, 4, 5)$ **$(2, 5, 7)$**

$$\begin{aligned} 3) \quad & -2r - 5q - 8p = 17 \\ & q + 4p - 7r = 9 \\ & 6p - 9q + 2r = 32 \end{aligned}$$

 $(-\frac{9}{2}, -6, 3)$

$$\begin{aligned} 5) \quad & 9s - 2t + u = 42 \\ & 53 = 6s - 5t \\ & 7s - 5t + 8u = 6 \end{aligned}$$

 $(3, -7, 1)$

$$\begin{aligned} 7) \quad & 7x - y + 8z = -16 \\ & 9x + 4y - 2z = -26 \\ & -3x + 5y = -40 \end{aligned}$$

$$\begin{aligned} 8) \quad & -6a + 4b + 7c = 21 \\ & -5a = -24 - 9b - 8c \\ & 3b + 2c = -14 + a \end{aligned}$$

 $(0, -8, -3)$ **$(-2, -10, 7)$** **PREVIEW**

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