

UDS

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2 Cuatrimestre

EXAMEN PRACTICO  
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$$1 \quad 5x + 2y - 4z = 12$$

$$5x + 2y + 4z - (2y + 4z) = (12 - 2y + 4z)$$

$$5x = 12 - 2y - 4z$$

$$\frac{5x}{5} = \frac{12}{5} - \frac{2y}{5} - \frac{4z}{5}$$

$$x = \frac{12 - 2y - 4z}{5}$$

$$2 \quad 5x - 2y - 3z = 22$$

$$5x - 2y - 3z - (-2y - 3z) = 22 - (-2y - 3z)$$

$$5x = 22 + 2y + 3z$$

$$\frac{5x}{5} = \frac{22}{5} + \frac{2y}{5} + \frac{3z}{5}$$

$$x = \frac{22 + 2y + 3z}{5}$$

$$3 \quad 12x - 14y - 45z = 120$$

$$12x - 14y - 45z - (12x - 14y - 45z) = 120 - (12x - 14y - 45z)$$

$$12x = 120 + 14y + 45z$$

$$12x = \frac{120}{12} + \frac{14y}{12} + \frac{45z}{12}$$

$$x = \frac{120 + 14y + 45z}{12}$$

$$4 \quad -x + 3y - z = 110$$

$$-x + 3y - z - (-x + 3y - z) = 110 - (-x + 3y - z)$$

$$-x = 110 - 3y + z$$

$$-x = \frac{110}{1} - \frac{3y}{1} + \frac{z}{1}$$

$$x = -110 + 3y - z$$

$$5 \quad -3x + 3y + 3z = 56$$

$$-3x + 3y + 3z - (-3x + 3y + 3z) = 56 - (-3x + 3y + 3z)$$

$$-3x = 56 - 3y - 3z$$

$$3x = \frac{56}{-3} - \frac{3y}{-3} - \frac{3z}{-3}$$

$$x = \frac{-56 - 3y - 3z}{3}$$

$$6x + 2y + 9z = 22$$

$$x + 2y + 9z - (2y + 9z) = 22 - (2y + 9z)$$

$$x = 22 - 2y - 9z$$

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$$7 \quad 654x + 120y - 3z = 600$$

$$654x + 120y - 3z - (120y - 3z) = 600 - (120y - 3z)$$

$$654x = -600 - 120y + 3z$$

$$\frac{654x}{654} = \frac{-600}{654} - \frac{120y}{654} + \frac{3z}{654} \quad x = \frac{-200 - 40y + z}{218}$$

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$$8 \quad x + z = 50$$

$$x + z - z = 50 - z, \quad x = 50 - z$$

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$$9 \quad 2x - y - z = 69$$

$$2x - y - z - (-y - z) = 69 - (-y - z)$$

$$2x = 69 + y + z$$

$$\frac{2x}{2} = \frac{69}{2} + \frac{y}{2} + \frac{z}{2}$$

$$x = \frac{69 + y + z}{2}$$

$$10 \quad -4x + 3y + 8z = 45$$

$$-4x + 3y + 8z - (3y + 8z) = 45 - (3y + 8z)$$
$$-4x = 45 - 3y - 8z$$

$$\frac{-4x}{-4} = \frac{45}{-4} - \frac{3y}{-4} - \frac{8z}{-4} \quad X = \frac{-45 - 3y - 8z}{4}$$

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$$11 \quad -5x - 2y - z = 60$$

$$-5x - 2y - z - (-2y - z) = 60 - (-2y - z)$$

$$-5x = 60 + 2y + z$$

$$\frac{-5x}{-5} = \frac{60}{-5} + \frac{2y}{-5} + \frac{z}{-5} \quad X = \frac{-60 + 2y + z}{5}$$

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$$12 \quad 2x - 6y + 2z = 30$$

$$2x - 6y + 2z - (-6y + 2z) = 30 - (-6y + 2z)$$

$$2x = 30 + 6y - 2z$$

$$\frac{2x}{2} = \frac{30}{2} + \frac{6y}{2} - \frac{2z}{2} \quad X = 15 + 3y - z$$





