

Review

$$\begin{aligned} 1) & -7(3x-5y) \\ & = -21x + 35y \end{aligned}$$

$$\begin{aligned} 2) & 3 - 5(3x+2) - (5x-3) + 7x \\ & = 3 - 15x - 10 - 5x + 3 + 7x \\ & = -4 - 13x \end{aligned}$$

$$\begin{aligned} 3) & -3x + 2 = 11 \\ & -3x = 11 - 2 \\ & \frac{-3x}{-3} = \frac{9}{-3} \\ & x = -3 \end{aligned}$$

$$\begin{aligned} 4) & 3(2x-7) - 2(3-x) = 3 \\ & 6x - 21 - 6 + 2x = 3 \\ & 6x + 2x = 3 + 21 + 6 \\ & \frac{8x}{8} = \frac{30}{8} \\ & x = \frac{15}{4} \end{aligned}$$

$$5) \quad 3 \cdot \frac{3x}{4} - \frac{5 \cdot 12}{1 \cdot 12} = \frac{x \cdot 2}{6 \cdot 2}$$

$$\frac{9x}{12} - \frac{60}{12} = \frac{2x}{12}$$

$$9x - 60 = 2x$$

$$9x - 2x = 60$$

$$\frac{7x}{7} = \frac{60}{7}$$

$$x = \frac{60}{7}$$

$$6) \quad \frac{x-5}{3} + \frac{3x}{2} = \frac{4}{1}$$

$$\frac{2 \cdot x}{2 \cdot 3} - \frac{5 \cdot 2}{3 \cdot 2} + \frac{3x \cdot 3}{2 \cdot 3} = \frac{4 \cdot 6}{1 \cdot 6}$$

$$\frac{2x}{6} - \frac{10}{6} + \frac{9x}{6} = \frac{24}{6}$$

$$2x - 10 + 9x = 24$$

$$2x + 9x = 24 + 10$$

$$\frac{11x}{11} = \frac{34}{11}$$

$$x = \frac{34}{11}$$

$$7) 0.03(2x-100) + 0.04(x+50) = 20$$

$$0.06x - 3 + 0.04x + 2 = 20$$

$$0.1x = 20 + 3 - 2$$

$$\frac{0.1x}{0.1} = \frac{21}{0.1}$$

$$x = 210$$

$$\# \frac{-4xy}{-4y} = \frac{10z}{-4y} \quad \text{for } x$$

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

$$4x - 6y = 30 \quad \text{for } y$$

$$\frac{-6y}{-6} = \frac{30-4x}{-6}$$

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

$$7x - 3(x+4) - 2(4-3x) = 2$$

$$7x - 3x - 12 - 8 + 6x = 2 \quad \text{equation}$$

$$10x = 2 + 12 + 8$$

$$\frac{10x}{10} = \frac{22}{10}$$

$$x = \frac{11}{5}$$

$$7x - 3(x+4) - 2(4-3x) - 2$$

Expression

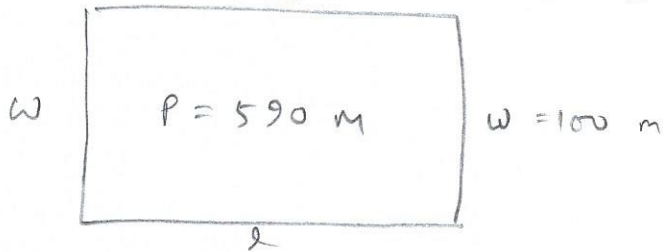
$$7x - 3x - 12 - 8 + 6x - 2$$

$$10x - 22$$

Book

45)

$$l = 2w - 5 = 195 \text{ m}$$



$$2w + 2l = 590$$

$$2w + 2(2w - 5) = 590$$

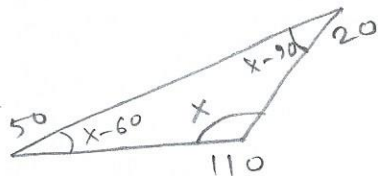
$$2w + 4w - 10 = 590$$

$$6w = 590 + 10$$

$$\frac{6w}{6} = \frac{600}{6}$$

$$w = 100$$

58)



$$x - 60 + x + x - 90 = 180$$

$$3x = 180 + 60 + 90$$

$$\frac{3x}{3} = \frac{330}{3}$$

$$x = 110$$