

Ex 2.11

$$13 - [7x - 9 \cdot (7 + 2x) - 4] + 2 \cdot (12x - 7) = 7x + 10$$

$$13 - [7x - 63 - 18x - 4] + 24x - 14 = 7x + 10$$

$$13 + 11x + 67 + 24x - 14 = 7x + 10$$

$$+11x + 24x - 7x = -13 - 67 + 14 + 10$$

$$28x = -56$$

$$x = -2$$

Ex 2.12

$$2 \cdot [(x-3) - 5 \cdot (1+x) - 1] = 2x + 4 \cdot (2-2x)$$

$$2 \cdot [x - 3 - 5 - 5x - 1] = 2x + 8 - 8x$$

$$2x - 6 - 10 - 10x - 2 = 2x + 8 - 8x$$

$$2x - 10x - 2x + 8x = 6 + 10 + 2 + 8$$

$$-2x = 26$$

$$x = -13$$

Ex 2.15

$$\{ [3 \cdot (x+2) - (2x+1)] - 10 \} + 4x = -3 \cdot (x-1)$$

$$\{ [3x + 6 - 2x - 1] - 10 \} + 4x = -3x + 3$$

$$\{ [1x + 5] - 10 \} + 4x = -3x + 3$$

$$1x - 5 + 4x = -3x + 3$$

$$1x + 4x + 3x = +5 + 3$$

$$8x = +8$$

$$x = 1$$