

exercise 8.

$$* A = 8 - 4(x-3) \quad * B = 2(3-4x) + 4(1-2x)$$

$$A = 8 - 4x + 12$$

$$B = 2 \times 3 - 2 \times 4x + 4 \times 1 - 4 \times 2x$$

$$A = 8 - 4x + 12$$

$$B = 6 - 8x + 4 - 8x$$

$$A = 20 - 4x$$

$$B = 10 - 16x$$

$$* C = -2(3x+1) - 3(x+3)$$

$$C = -2 \times 3x - 2 \times 1 - 3 \times x - 3 \times 3$$

$$C = -6x - 2 - 3x - 9$$

$$C = -9x - 11$$

$$* D = 5(6x-1) - (3+8x)$$

$$D = 5 \times 6x - 5 \times 1 - 3 - 8x$$

$$D = 30x - 5 - 3 - 8x$$

$$D = 22x - 8$$

$$* E = 2x(x+4) + x(1-x)$$

$$E = 2x \times x + 2x \times 4 + x \times 1 - x \times x$$

$$E = 2x^2 + 8x + x - x^2$$

$$E = x^2 + 9x$$

$$* F = -x(2-x) + (x^2 - 2x) - (3x^2 - 4)$$

$$F = -x \times 2 - (-x) \times x + x^2 - 2x - 3x^2 + 4$$

$$F = -2x + x^2 + x^2 - 2x - 3x^2 + 4$$

$$F = -x^2 - 4x + 4$$

$$* G = 3x^2 - (x^2 - 4x + 5) - 4x(x-3)$$

$$G = 3x^2 - x^2 + 4x - 5 - 4x \times x - (-4x) \times 3$$

$$G = 3x^2 - x^2 + 4x - 5 - 4x^2 + 12x$$

$$G = -2x^2 + 16x - 5$$