

$$\underline{2a} \quad (2x^2+1)(x^2+3) = 2x^4 + 6x^2 + x^2 + 3 = 2x^4 + 7x^2 + 3$$

$$\underline{2b} \quad (3x^3+2)(x^3-4) = 3x^6 - 12x^3 + 2x^3 - 8 = 3x^6 - 10x^3 - 8$$

$$\underline{2c} \quad (3a^2-b)(a^2-2b) = 3a^4 - 6a^2b - a^2b + 2b^2 = 3a^4 - 7a^2b + 2b^2$$

$$\underline{2d} \quad -4(a-2b)(2b-a) = -4(2ab - a^2 + 4b^2 + 2ab) =$$

$$= -4(4ab - a^2 + 4b^2) = -16ab + 4a^2 - 16b^2$$

$$\underline{2e} \quad (2x^2-3y^2)(2x^2+3y^2) = 4x^4 + 6x^2y^2 - 3x^2y^2 - 9y^4 = \\ = 4x^4 + 3x^2y^2 - 9y^4$$