

## Développement

Rappels:  $a(b+c) = ab+ac$ ,  $(a+b)(c+d) = ac+ad+bc+bd$ ,  $(a+b)^2 = a^2+2ab+b^2$ ,  $(a-b)^2 = a^2-2ab+b^2$ ,  $(a-b)(a+b) = a^2-b^2$

Développer les expressions suivantes, puis les réduire et les ordonner

$$a(x) = -7(x + 3)$$

$$b(x) = 9(-2x + 7)$$

$$c(x) = -5(-3x - 7)$$

$$d(x) = -3x(5 - 3x)$$

$$e(x) = 7x(-8x - 3)$$

$$f(x) = -5x(-4 - 11x)$$

$$g(x) = 11(-x^2 + 5x - 2)$$

$$h(x) = -7(-3x^2 - 6x + 5)$$

$$i(x) = -5(4x^2 - 3x - 7)$$

$$j(x) = -3x(5x^2 - 3x + 7)$$

$$k(x) = 13x(-x^2 - 5x + 3)$$

$$l(x) = -17x(-3x^2 + 4x + 5)$$

$$m(x) = (7x + 3)(8x - 9)$$

$$n(x) = (-2x + 5)(4x - 3)$$

$$o(x) = (-3x - 8)(-3x + 8)$$

$$p(x) = (3x - 4)^2$$

$$q(x) = (-5x - 2)^2$$

$$r(x) = (-3x + 7)^2$$

$$s(x) = \sqrt{7}(-5x + 3)$$

$$t(x) = -\sqrt{5}(-2\sqrt{7}x + \sqrt{2})$$

$$u(x) = (\sqrt{11}x - 3)^2$$

$$v(x) = (\sqrt{(3)}x - \sqrt{13})^2$$

$$w(x) = (-7x - 8)(-2x^2 - 3x - 7)$$

$$x(x) = (-3\sqrt{5}x - 2\sqrt{3})(3x^2 - \sqrt{7}x + 2)$$

$$y(x) = (-2x^2 - 5x + 5)(7x^2 - 3x + 2)$$

$$z(x) = (-\sqrt{3}x^2 + 5x - 2)(-7x^2 - \sqrt{7}x - \sqrt{5})$$

$$a_1(x) = 2x(x + 3)$$

$$b_1(x) = -7y^2(-5 - 2y^2)$$

$$c_1(x) = (x + 5)(x + 1)$$

$$d_1(x) = (2x - 5)(x + 4)$$

$$e_1(x) = (4 - a)^2$$

$$f_1(x) = (2x + 3)^2$$

$$g_1(x) = (4 - 7x)(4 + 7x)$$

$$h_1(x) = (x + 4)(x - 6) + (-1 + x)(x - 7)$$

$$i_1(x) = -3(a^2 + 2) - (a - 3)(2a + 7)$$

$$j_1(x) = 4 - (2x + 1)^2$$

$$k_1(x) = (x - 4)^2 - (2x + 1)^2$$

$$l_1(x) = (3x - 5)^2 - (-3x + 2)^2$$

$$m_1(x) = -7(7x + 3)^2$$

$$n_1(x) = -3(-x + 5)^2 + (-2x - 3)^2$$

$$o_1(x) = 5(-3x - 8)(-3x + 8) + (2x - 4)^2$$

$$p_1(x) = 3(x - 4)^2 - 2(-7x + 6)$$

$$q_1(x) = 10x - (-3x - 7)^2$$

$$r_1(x) = 10(-2x + 3) - (-5x + 3)^2$$

$$s_1(x) = (\sqrt{7}x + 3)^2$$

$$t_1(x) = (-2\sqrt{3}x + \sqrt{7})^2$$

$$u_1(x) = -3x(\sqrt{2}x - 3)^2$$

$$v_1(x) = (x - \sqrt{7})^2 - (3x - 2)^2$$

$$w_1(x) = (-3x - 5)(-3x - 7) + (2x - 7)^2$$

$$x_1(x) = (-3\sqrt{2}x - 2\sqrt{3})(x + 2)$$

$$y_1(x) = (-5x + 5)(-3x + 2)^2$$

$$z_1(x) = (-5x - 2)(-\sqrt{7}x - \sqrt{5})^2$$