



1 Observa y completa las siguientes igualdades:

$$a) x \cdot (x + 3) = \boxed{1}x^2 + \boxed{3}x$$

$$b) 4a \cdot (2a + 5) = \boxed{8}a^2 + \boxed{20}a$$

$$c) x^2 \cdot (\boxed{x} + \boxed{5}) = x^3 + 5x^2$$

$$d) \boxed{a} \cdot (3a + 5) = 3a^2 + 5a$$

$$e) 9x^2 + 6x + 15 = \boxed{3} \cdot (3x^2 + 2x + 5)$$

$$f) 7a^3 + 14a^2 + 21 = 7 \cdot (\boxed{1}a^3 + \boxed{2}a^2 + \boxed{3})$$

$$g) 15x^4 + 6x^3 + 9x^2 = 3x^2 \cdot (\boxed{5}x^2 + \boxed{2}x + \boxed{3})$$

$$h) 20a + 5a^2 + 10a^3 = \boxed{5}a \cdot (4 + a + 2a^2)$$

2 Completa las siguientes igualdades observando que uno de los sumandos que hay dentro del paréntesis es la unidad:

$$a) 2x \cdot (x + 1) = \boxed{2}x^2 + \boxed{2}x$$

$$b) 5a^2 \cdot (3a + 1) = \boxed{15}a^3 + \boxed{5}a^2$$

$$c) x^2 + x = x \cdot (\boxed{x} + \boxed{1})$$

$$d) 4a^3 + 2a^2 = 2a^2 \cdot (\boxed{2}a + \boxed{1})$$

$$e) 12x^4 + 18x^3 + 6x^2 = 6x^2 \cdot (\boxed{2}x^2 + \boxed{3}x + \boxed{1})$$

$$f) 8a^3 + 4a^2 + 2a = \boxed{2a} \cdot (4a^2 + 2a + 1)$$

$$g) 12x^5 - 24x^3 + 6x^2 = \boxed{6}x^2 \cdot (\boxed{2}x^3 - \boxed{4}x + \boxed{1})$$

$$h) 15a^6 - 25a^4 + 5a^3 = \boxed{5}a^3 \cdot (\boxed{3}a^3 - \boxed{5}a + \boxed{1})$$