

1.3. Multiplicación de expresiones algebraicas

Instrucciones: Realiza la multiplicación de polinomios y selecciona la respuesta correcta.

$$9(3x^2y^7) = \boxed{} \boxed{} \boxed{} \boxed{}$$

$$(6x^{10}y^5z)(10x^3y^4z^2) = \boxed{} \boxed{} \boxed{} \boxed{} \boxed{} \boxed{}$$

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

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

$$(-4x^3y^4)^2 = \boxed{} \boxed{} \boxed{} \boxed{}$$

$$(-2x^4y^6)^3 = \boxed{} \boxed{} \boxed{} \boxed{}$$

Instrucciones: Dados los polinomios, determina los resultados.

$$A(x) = -4x^3$$

$$B(x) = 8x^3 - 6x^2 + 2x - 3$$

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

$$D(x) = 9x + x^6 - 3x^5 + 3$$

1 $7 \cdot B(x) = \boxed{} x^3 - \boxed{} x^2 + \boxed{} x - \boxed{}$

2 $(A(x) \cdot B(x) = - \boxed{} x^6 + \boxed{} x^5 - \boxed{} x^4 + \boxed{} x^3 + \boxed{} x^2 +$
 $\boxed{} x + \boxed{}$

3 $B(x) \cdot C(x) = \boxed{} x^9 - \boxed{} x^8 + \boxed{} x^7 - \boxed{} x^6 + \boxed{} x^5 + \boxed{}$
 $x^3 - \boxed{} x^2 + \boxed{} x - \boxed{}$

4 $-2B(x) \cdot C(x) = - \boxed{} x^9 + \boxed{} x^8 - \boxed{} x^7 + \boxed{} x^6 - \boxed{} x^5 +$
 $\boxed{} x^4 - \boxed{} x^3 + \boxed{} x^2 - \boxed{} x + \boxed{}$

5 $-2B(x) \cdot D(x) = - \boxed{} x^9 + \boxed{} x^8 - \boxed{} x^7 + \boxed{} x^6 - \boxed{} x^5 -$
 $\boxed{} x^4 + \boxed{} x^3 + \boxed{} x^2 + \boxed{} x + \boxed{}$