

ZONA MATEMÁTICA

NOMBRE:

CURSO

FECHA



NUESTROS AMIGUITOS NECESITAN QUE LES AYUDES A ENCONTRAR LOS LENGUAJES ALGEBRAICOS QUE FALTAN PARA COMPLETAR EL EJERCICIO.

$$\begin{aligned} & 2x^2y + 2xz^2 + y^2z^2 + xy^3 \\ &= (2x^2y + xy^3) + (2xz^2 + y^2z^2) \\ &= \boxed{}(2x + y^2) + z^2(\boxed{} + y^2) \\ &= (2x + y^2)(xy + z^2) \end{aligned}$$

$$\begin{aligned} & 6m - 9n + 21nx - 14mx \\ &= (6m - 14mx) - (\boxed{} - 21nx) \\ &= 2m(3 - 7x) - 3n(3 - 7x) \\ &= (3 - 7x)(\boxed{} - 3n) \end{aligned}$$

$$\begin{aligned} & 2am - 2an + 2a - m + n - 1 \\ &= (\boxed{} - 2an + 2a) - (\boxed{} - n + 1) \\ &= 2a(m - n + 1) - (m - n + 1) \\ &= (2a - 1)(\boxed{} + 1) \end{aligned}$$



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$$\begin{aligned} & 3ax - 2by - 2bx - 6a + 3ay + 4b \\ &= (3ax - 6a + 3ay) - (\text{ } + 2bx - \text{ }) \\ &= 3a(x - 2 + y) - 2b(y + x - 2) \\ &= (x + \text{ })(3a - 2b) \end{aligned}$$

$$\begin{aligned} & 3x^3 + 2axy + 2ay^2 - 3xy^2 - 2ax^2 - 3x^2y \\ &= (3x^3 - 3xy^2 - 3x^2y) + (2axy + 2ay^2 - 2ax^2) \\ &= \text{ } (x^2 - y^2 - xy) \text{ } (xy + y^2 - x^2) \\ &= 3x(x^2 - y^2 - xy) - 2a(-xy - y^2 + x^2) \\ &= (\text{ })(x^2 - xy - y^2) \end{aligned}$$

$$\begin{aligned} & x(2a + b + c) - 2a - b - c \\ &= x(2a + b + c) - (\text{ }) = (2a + b + c)(x - 1) \end{aligned}$$

$$\begin{aligned} & (3x + 2)(x + y - z) - (3x + 2) - (x + y - 1)(3x + 2) \\ &= (3x + 2)(x + y - z - 1 - x - y + 1) = -z(\text{ }) \end{aligned}$$



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$$16x^3y^2 - 8x^2y - 24x^4y^2 - 40x^2y^3$$
$$= 8x^2y(\text{ } - 3x^2y - 5y^2)$$

$$3a^2b + 6ab - 5a^3b^2 + 8a^2bx + 4ab^2m$$
$$= \text{ } (3a + 6 - 5a^2b + \text{ })$$

$$a^{20} - a^{\text{ }} + a^{12} - a^8 + a^4 - a^2$$
$$= a^2(a^{18} - a^{14} + a^{10} - a^6 + a^2 \text{ })$$