



# Mi Universidad

## ALGEBRA

*Nombre del Alumno: Karol hdz. Solis*

*Nombre del tema: Unidad 3*

*Parcial: Tercer*

*Nombre de la Materia: algebra*

*Nombre del profesor: Juan jose Ojeda*

*Nombre de la carrera: BEN*

*Semestre; 1er*

Comitán de Domínguez Chiapas a 06 de noviembre de 2023.

$$1. (3A^3 + 5A^2 - 4) : (3A)$$

$$\frac{3A^3 + 5A^2 - 4}{3A}$$

$$\frac{3A^3}{3A} + \frac{5A^2}{3A} + \frac{4}{3A} = A + \frac{5}{3}A + \frac{4}{3}A$$

$$A^2 + \frac{5}{3}A + \frac{4}{3A}$$

$$2. (2/3A^2B^2 - 1/4A^2B^4 + 5/6AB^4 - 2/5B^5) : (1/2AB^2)$$

$$\frac{2/3A^2B^2 - 1/4A^2B^4 + 5/6AB^4 - 2/5B^5}{1/2AB^2} = 2/5B^3$$

$$\frac{2}{6}A - \frac{1}{8}Ab^2 + \frac{5}{12}B^2 - \frac{2}{16}AB^3$$

$$3. (x^4 - 2x^3 - 11x^2 + 30x - 20) : (x^2 + 3x - 2)$$

$$\begin{array}{r} x^2 + 3x - 2 \overline{) x^4 - 2x^3 - 11x^2 + 30x - 20} \\ \underline{-x^4 - 3x^3 + 2x^2} \phantom{-20} \\ 5x^3 - 9x^2 + 30 \phantom{x} \phantom{-20} \\ \underline{-5x^3 - 15x^2 + 10x} \phantom{-20} \\ -24x^2 + 40x - 20 \phantom{-20} \\ \underline{24x^2 + 72x - 48} \\ 112x - 68 \end{array}$$

$$112x - 68$$



$$10 (R^4 S^3 T^2 U)^5$$

$$(R^4 S^3 T^2 U) (R^4 S^3 T^2 U) ($$

$$(R^4 S^3 T^2 U) (R^4 S^3 T^2 U) ($$

$$(R^4 S^3 T^2 U) (R^4 S^3 T^2 U) ($$

$$(R^4 S^3 T^2 U) (R^4 S^3 T^2 U) ($$

$$R^{20} S^{15} T^{10} U^5$$

$$11 - (-A^3 B^4 C^2 D^5)$$

$$(-A^3 B^4 C^2 D^5) (-A^3 B^4 C^2 D^5)$$

$$(-A^6 B^8 C^4 D^{10}) (-A^3 B^4 C^2 D^5)$$

$$(-A^9 B^{12} C^6 D^{15}) (-A^3 B^4 C^2 D^5)$$

$$(-A^{12} B^{16} C^8 D^{20}) (-A^3 B^4 C^2 D^5)$$

$$(-A^{15} B^{20} C^{10} D^{25}) (-A^3 B^4 C^2 D^5)$$

$$A^{18} B^{24} C^{12} D^{30}$$

$$4. - (x^6 + 5x^4 + 3x^2 - 2x) \div (x^2 - x + 3)$$

$$\begin{array}{r} x^2 - x + 3 \overline{) x^6 + 0x^5 + 5x^4 + 0x^3 + 3x^2 - 2x + 0} \\ \underline{-x^6 + x^5 - 3x^4} \phantom{+ 0} \\ x^5 + 8x^4 + 3x^2 - 2x + 0 \end{array}$$

$$\begin{array}{r} x^5 + 8x^4 + 3x^2 - 2x \\ \underline{-x^5 + x^4 - 3x^3} \\ 9x^4 + 3x^2 - 2x \end{array}$$

$$\begin{array}{r} 9x^4 + 3x^2 - 2x \\ \underline{-9x^4 + 9x^3 - 9x^2 - 2x} \\ 18x^3 - 6x^2 - 4x \end{array}$$

$$\begin{array}{r} 18x^3 - 6x^2 - 4x \\ \underline{-18x^3 + 36x^2 - 36x} \\ 42x^2 - 40x \end{array}$$

$$8x - 18$$

$$5. (x^4 - 2x^3 - 11x^2 - 30x) \div (x^2 + 3x - 2)$$

$$\begin{array}{r} x^2 + 3x - 2 \overline{) x^4 - 2x^3 - 11x^2 - 30x} \\ \underline{-x^4 + 3x^3 - 2x^2} \\ 5x^3 - 9x^2 - 30x \end{array}$$

$$5x^3 - 9x^2 - 30x$$