

ALGEBRA

UDS MI UNIVERSIDAD

| BACHILLERATO

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PLA TRAFORMA

$$1^{\circ} (3A^3 + 5A^2 - 4) \div (3A)$$

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

$$2^{\circ} (2/3 A^2 B^2 - 1/4 A^4 B^4 + 5/6 AB^4 - 2/5 B^5) \div (-4/2 AB^2)$$

$$\frac{2}{3} a^2 b^2 - \frac{1}{4} a^2 b^4 - \frac{5}{6} a b^4 - \frac{2}{5} b^5$$
$$\frac{4}{2} a b^2 - \frac{4}{2} a b^2 - \frac{1}{2} a b^2 - \frac{1}{2} a b^2$$

$$\frac{4}{3} a b^5 - \frac{2}{4} a b^2 + \frac{10}{6} a b^2 - \frac{4}{5} a b^5$$

$$\frac{4a}{3} - \frac{1ab^2}{2} + \frac{5b^2}{3} - \frac{4ab^5}{5}$$

$$4^{\circ} (x^6 + 5x^4 + 3x^2 + 2x) \div (x^2 + x + 3)$$

$$\begin{array}{r} x^2 + x + 3 \overline{) x^6 + 0x^5 + 5x^4 + 0x^3 + 3x^2 - 2x + 0} \\ \underline{-x^2 - x - 3} \\ x^5 + 2x^4 + 0x^3 \\ \underline{-x^5 - x^4 - 3x^3} \\ 3x^4 - 3x^3 + 3x^2 \\ \underline{-3x^4 + 3x^3 - 9x^2} \\ -6x^2 - 2x + 0 \\ \underline{+6x^2 - 6x + 18} \\ -8x + 18 \end{array}$$

$$R = x^4 + x^3 + 3x^2 - 6 \left(\frac{-8x + 18}{x^2 + x + 3} \right)$$

$$5^{\circ} (x^4 + 2x^5 - 4x^2 + 30x - 20) \div (x^2 + 3x - 2)$$

$$\begin{array}{r} x^2 + 3x - 2 \overline{) x^4 - 2x^5 - 11x^2 + 30x - 20} \\ \underline{-x^4 - 3x^3 + 2x^2} \\ -5x^5 - 9x^2 + 30x \\ \underline{5x^3 + 15x^2 - 10} \\ -6x^2 + 20x - 20 \\ \underline{6x^2 - 18x + 12} \\ 2x - 8 \end{array}$$

$$R = x^2 + 5x + 6 \left(\frac{2x - 8}{x^2 + 3x - 2} \right)$$

$$6^{\circ} (x^6 + 5x^4 + 3x^2 + 2x) \div (x^2 - x + 3)$$

$$\begin{array}{r} x^2 - x + 3 \overline{) x^6 + 0x^5 + 5x^4 + 0x^3 + 3x^2 - 2x + 0} \\ \underline{-x^2 + x - 3} \\ x^3 + 2x^4 + 0x^3 \\ \underline{-x^3 + x^2 - 3x} \\ x^5 + x^4 - 3x^2 \\ \underline{-3x^4 + 3x^3 - 4x^2} \\ 3x^3 - 4x^2 \\ \underline{-3x^3 + 3x^2 - 4x} \\ -6x^2 - 2x + 0 \\ \underline{6x^2 - 6x + 18} \\ -8x + 18 \end{array}$$

$$R = x^4 + x^3 + 3x^2 - 6 \left(\frac{-8x + 18}{x^2 - x + 3} \right)$$

$$75(2x^4 - 2x^3 + 3x^2 + 15x + 10) \div (x+2)$$

$$\begin{array}{r} 2x^3 - 6x^2 + 15x - 25 \\ x+2 \overline{) 2x^4 - 2x^3 + 3x^2 + 15x + 10} \\ \underline{- 2x^4 + 4x^3} \\ -6x^3 + 3x^2 \\ \underline{6x^3 + 12x^2} \\ 15x^2 + 15x \\ \underline{75x^2 - 30x} \\ -25x + 100 \\ \underline{25x + 50} \\ 60 \end{array}$$

$$R = 2x^3 - 6x^2 + 15x - 25 \left(\frac{60}{x+2} \right)$$

$$85(x^{10} - 1024) \div (x+2)$$

$$\begin{array}{r} x^9 - 2x^8 + 4x^7 - 8x^6 + 16x^5 - 32x^4 + 64x^3 - 128x^2 + 256x - 512 \\ x+2 \overline{) x^{10} + 0x^9 + 0x^8 + 0x^7 + 0x^6 + 0x^5 + 0x^4 + 0x^3 + 0x^2 + 0x - 1024} \\ \underline{- x^{10} - 2x^9} \\ -2x^9 + 0x^8 \\ \underline{+ 2x^9 + 4x^8} \\ 4x^8 + 0x^7 \\ \underline{4x^8 - 8x^7} \\ -8x^7 + 0x^6 \\ \underline{8x^7 + 16x^6} \\ 16x^6 + 0x^5 \\ \underline{16x^6 - 32x^5} \\ -32x^5 + 0x^4 \\ \underline{32x^5 + 64x^4} \\ 64x^4 + 0x^3 \\ \underline{64x^4 - 128x^3} \\ -128x^3 + 0x^2 \\ \underline{128x^3 + 256x^2} \\ 256x^2 + 0x \\ \underline{256x^2 - 512x} \\ -512x + 1024 \\ \underline{512x - 1024} \\ 0 \end{array}$$

$$9^{\circ} (x^3 - 5x + 1) \div (x - 3)$$

$$\begin{array}{r} x^2 + 3x + 4 \\ x - 3 \overline{) x^3 - 5x + 1} \\ \underline{-x^3 + 3x^2} \\ -3x^2 - 5x + 1 \\ \underline{3x^2 - 9x} \\ 4x - 8 \\ \underline{-4x + 12} \\ 11 \end{array}$$

$$R = x^2 + 3x + 4 \left(\frac{11}{x-3} \right)$$

$$10^{\circ} (R^4 B^3 T^4 U S^5)$$

$$R = R^2 O S^5 + 10 U S$$

$$R = A^{18} B^3 C^4 (12)^{30}$$

$$R = 12^{\circ} (-3x^6 y^3 z^2) (-3x^6 y^3 z^2)$$

$$R = 4x^2 y^6 z^4$$

$$15 \left(\frac{1}{5} a^2 b = \frac{4}{3} ab - 4 \right) \left(\frac{3}{2} ab^4 \right)$$

$$R = \frac{6}{10} a^2 b^2 - \frac{12}{b} a^2 b^2 - \frac{12}{2} abc$$

$$\frac{3}{5} a^2 b^2 - 2a^2 b^2 - 6abc$$

$$14 (3x^2 + 2y^2) (3x^3 + 2y^3)^2$$

$$(3x^2 + 2y^2) (3x^3 + 2y^3) (3x^3 + 2y^3)$$

$$9x^5 + 6x^3 y^3 + 6x^3 z + 4y^5 (3x^2 + 2y^2)$$

$$2x^4 + 18x^2 y^3 + 18x^2 y^2 + 12x^3 y^2 + 8y^5$$

$$R = 18x^4 + 12x^3 y^2 + 9x^2 y^3 + 8y^5$$

$$15 = \left(\frac{2}{6}a^3 + \frac{1}{3}b^2\right)\left(\frac{2}{6}a^3 + \frac{1}{3}b^2\right)$$

$$\frac{4}{36}a^6 + \frac{2}{18}a^3b^2$$

$$\frac{2}{18}a^3b^2 + \frac{1}{9}b^4$$

$$R = 9a^6 + 18a^3b^2 + 1b^4$$