

Desarrollos algebra control 1

→ Clase 1

• Ejemplo: Si: $P(x) = 2x + 1$ y $Q(x) = 2 \cdot 3x + x^2$

a) $-2P(x)$ b) $P(x) + Q(x)$ c) $P(x) \cdot Q(x)$

a) $-4x - 2$ b) $x^2 - x + 3$ c) $(2x+1)(x^2-3x+2) = 2x^3 - 6x^2 + 4x + x^2 - 3x + 2 = 2x^3 - 5x^2 - 2x + 2$

• Ejemplo: $P(x) = x^2 - 2x^2 - 3$ $Q(x) = x - 1$ $P(x) : Q(x) =$

$$\frac{x^2 - 2x^2 - 3}{-x^2} = -2x^2 - 3 : x - 1 = x^2 - x - 1$$

$$\begin{array}{r} -x^2 + x + 1 \\ \hline -2x^2 + 3x + 2 \\ -2x^2 + 2x - 2 \\ \hline x + 5 \end{array}$$

• Ejemplo: $P(x) = 2x^4 + 6x^3 + 6x^2 - 7x + 10$ $Q(x) = x^2 - 2$ $P(x) : Q(x) =$

$$2x^4 + 6x^3 + 6x^2 - 7x + 10 : x^2 - 2 = 2x^2 + 6x + 10$$

$$45x + 10 \rightarrow 7x + 10$$

→ Clase 2

• Ejemplo: $P(x) = 5x^2 - 20x + 15$

$$x(5x^2 - 20x + 15) \rightarrow 5x(x^2 - 4x + 3) \rightarrow 5(x)(x-1)(x-3)$$

• Ejemplo: $P(x) = x^3 - 3x + 2$

$$\begin{array}{r|rrrr} 1 & 0 & -3 & +2 & x^2 - x - 2 & P(x) = (x-1)(x-1)(x+2) \\ 1 & 1 & 1 & -2 & \\ 1 & 1 & 1 & -2 & 0 \\ 1 & 1 & 2 & 0 & x + 2 \\ -2 & 1 & 0 & 0 & \end{array}$$

• Ejemplo: Verificar que -1 es raíz de $P(x) = x^4 - 6x^2 - 6x + 1$ y de multiplicidad

$$2 \quad \begin{array}{r|rrrrrr} 1 & 0 & 0 & -6 & -6 & +1 & (x+1)(x^4 - x^3 + x^2 + (-1-6)x + 1) \end{array}$$

$$\begin{array}{r|rrrrrr} -1 & 1 & -1 & 1 & -1 & 6 & -1 \\ 1 & 1 & -1 & 1 & -6 & 7 & 0 \end{array} \quad (x+1)(x^3 - x^2 + 3x - 9)$$

$$\begin{array}{r|rrrrrr} -1 & 1 & -2 & -3 & -3 & 13 & 0 \\ 1 & 1 & -2 & -3 & -4 & 16 & 0 \end{array}$$

• Ejemplo: $P(x) = x^5 - 6x^4 + 11x^3 - 2x^2 - 12x + 8$, verifique los ceros múltiples

$$2 \quad \begin{array}{r|rrrrrr} 1 & -6 & +11 & -2 & -12 & 8 \\ 2 & 2 & -8 & 6 & 8 & -8 \end{array} \quad (x-2)(x^4 - 4x^3 + 3x^2 + 6x - 4)$$

$$\begin{array}{r|rrrr} 1 & -4 & 3 & +9 & -4 & 0 \\ 2 & 2 & -4 & -2 & 4 \end{array} \quad (x-2)^2(x^3 - 2x^2 - x + 2)$$

$$\begin{array}{r|rrrr} 1 & -2 & -1 & 2 & 0 \\ 2 & 2 & 0 & -2 \end{array} \quad (x-2)^3(x^2 - 1) \dots$$

$$\begin{array}{r|rr} 1 & 0 & -1 & 0 \end{array} \quad (x-2)^3(x-1)(x+1)$$

• Ejemplo: $P(x) = 2x^5 + 2x^4 - 3x^3 - 7x^2 - 4x - 4$, los ceros

$$\begin{array}{r|rrrrrr} 1 & 0 & 2 & 2 & -3 & -7 & -4 & -4 \\ 2 & 2 & 0 & 2 & -7 & -11 & -12 & -12 \end{array}$$

$$D_{10} = \{ \frac{1}{2}, 2, -4 \}$$

$$D_{10} = \{ \frac{1}{2}, 2 \}$$

Los ceros

Los ceros

$$\begin{array}{r|rrrrrr} 2 & 2 & -7 & -7 & -4 & -4 \\ -1 & -2 & 0 & 3 & 0 & 4 \end{array}$$

$$\begin{array}{r|rrrr} 2 & 0 & -7 & 0 & -4 & 0 \end{array}$$

$$\begin{array}{r|rr} 1 & -7 & -4 & -12 & -12 \end{array}$$

$$(x+1)(2x^4 - 3x^2 - 4)$$

$$x^4 - 6x^2 - 4x - 4$$

$$-6x^2 - 4x - 4$$

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A Loxley



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