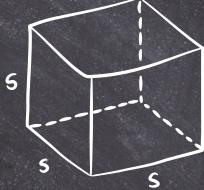


 $V = \frac{4}{3}\pi r^3$

Material de Apoyo Cátedra 1 Ayudantía 4

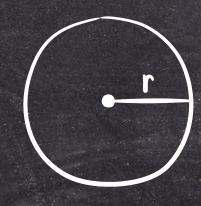
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



V = 53

$$a = \frac{V_f - V_i}{+}$$

$$ax^2 + bx + c = 0$$



$$A=\pi r^2$$

$$\frac{x}{a} + \frac{y}{b} = 1$$

$$X = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

$$(a+b)(a-b) = a^2 - b^2$$

$$a^{3} + b^{3} = (a+b)(a^{2} - ab + b^{2})$$

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2ac + 2bc$$

$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

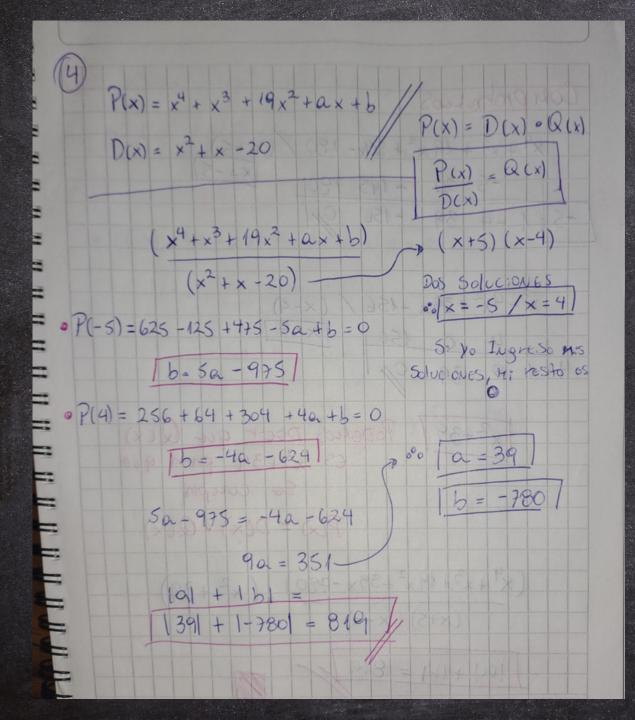
$ax^{2} + bx + c = 0$ $\Rightarrow x = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$

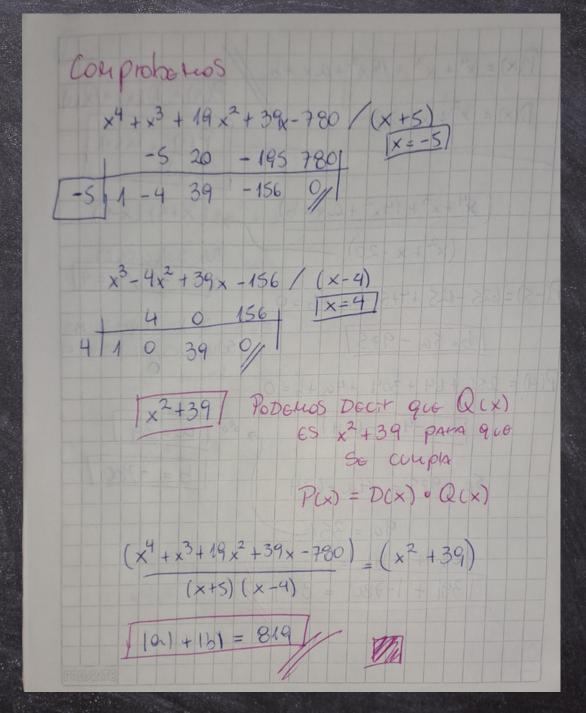
DETERMINANTE

- <u>Si es positivo</u>: Dos soluciones reales y distintas
- <u>Si es negativo</u>: Dos soluciones no reales y complejas conjugadas
- · <u>Si es igual a o:</u> Una solución real y repetida

3)
$$x^4 + x^3 - 1(x^2 + mx + m) / (x^2 - 9)$$

 $\Rightarrow P(3) = 81 + 27 - 99 - 3m + m = 0$
 $\Rightarrow P(-3) = 81 - 27 - 99 + 3m + m = 0$
 $\Rightarrow P(-3) = 81 - 27 - 99 + 3m + m = 0$
 $\Rightarrow P(-3) = 81 - 27 - 99 + 3m + m = 0$
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 $\Rightarrow P(-3) = 81 - 27 - 99 + 3m + m = 0$





12x4 - 44x3 +37x2 +11x-10 trorety De GAUS EGRATIO IZOPENDIENTE -> = (1,2,5,10) Coficionte Dinopal (1) + (1,2,3,4,6,12) 2/3, 5/3, 5/4, 5/6, 5/12 5/2,5,10/3,10/4,10/6. Rufini 12 x4 -44 x3 +37 x2 +11 x - 10 (x-1/2) 00 x = 1/2 (X+1/2) 00 X = 1-1/2 00 X = 2 -40 1112 12x-20 = x = 5/g