



**UNIVERSIDAD DEL SURESTE
CAMPUS COMITÁN
LICENCIATURA EN MEDICINA HUMANA**

**TEMA... DERIVAR SE HA DICHO
BRAYAN VELAZQUEZ HERNANDEZ**

GRUPO: "B"

GRADO: SEGUNDO SEMESTRE

MATERIA: BIOMATEMATICAS

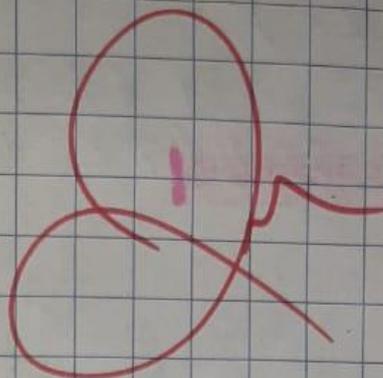
**NOMBRE DEL MÉDICO: ROSVANI MARGINE
MORALES IRECTA**

Comitán de Domínguez Chiapas a 19 marzo 2022

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

$$y' = (3)(2x + 3)^{3-1} (2)$$

$$\downarrow$$
$$(3)(2x + 3)^2 (2)$$
$$6(2x + 3)^2$$



$$y = N [f(x)]^{n-1} (f'(x))$$

$$y = (6x^3 - 5x^2 + 4)^3$$
$$(3)(6x^3 - 5x^2 + 4)^2 (18x^2 - 10)$$
$$54x^2 - 30(6x^3 - 5x^2 + 4)^2$$

$$y = (5x^2 + 10x)^2$$

$$(2)(5x^2 + 10x)(10x + 10)$$
$$20x + 20(5x^2 + 10x)$$

$$(7x^3 - 2x^2 + 5)^4$$

$$4(7x^3 - 2x^2 + 5)^3 (21x^2 - 4x)$$
$$84x^2 - 8x(7x^3 - 2x^2 + 5)^3$$

$$\cancel{2x^{10}}$$

$$(2x^{10} - 2x^5)^5$$

$$5(2x^{10} - 2x^5)^4 (20x^9 - 10x^4)$$

$$100x^9 - 50x^4 (2x^{10} - 2x^5)$$

$$(3x^3 - 2x^2)^6$$

$$(3x^3 - 2x^2)^6$$

1

1) $x^1 = 7x^6$

2) $x^{10} = 10x^4$

3) $x^{20} = 20x^{14}$

4) $x^2 = 2x$

5) $x^4 = 4x^3$

2

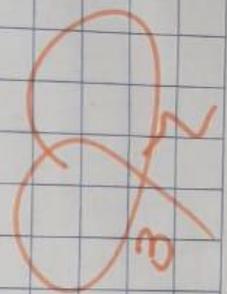
$7x^6$
 $7(6x^5)$
 $42x^5$

$8x^2$
 $8(2x)$
 $16x$

$6x$
 $6x$

$2x^3$
 $2(3x^2)$
 $6x^2$

$9x^4$
 $9(4x)$
 $36x^3$



3

$4x^3 + 6x^2$
 $12x^2 + 12x$

$x^4 + x^3$
 $4x^3 + 3x^2$

$2x^2 + 8x$
 $4x - 8$

$7x^3 - 5x^5$
 $21x^2 - 25x^4$

$10x^2 + 2x$
 $20x + 2$

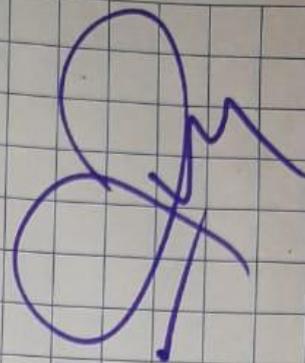
TAREK

$$1) f(x) = 3x^2$$

6x

$$f(x) = 5 \cdot$$

0



$$f(x) = -2x$$

-2

$$f(x) = 2x + 2$$

-2

$$f(x) = 2x^2 - 5$$

4x

→

$$(4x + 1) + (10x^2 - 5)$$

$$(3x^3 + 2x) + (6x^4 + 6)$$

$$10x^2(4x + 1) + 10x^2(10x^2 - 5)$$

$$124x^2(3x + 2x) + 6x^4(6x)$$

$$(2x^4 + x^5) - (5x^3 - 8x^2)$$

$$(32x - 2) - (6x - 1)$$

$$15x^2(16x + x^2) + 10x^2$$

$$6(32 - 2)(32x - 2)$$

$$(7x^2 + 7) + (2x - 3)$$

$$7(14 + 1) + 14(2 - 3)$$

