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Materia: calculo
Semestre : 4
Nombre de la Licenciatura : Bachillerato en Enfermería

PROBLEMARIO

1.- Y = 2X3 – 3X + 9

$$y= 2x3 - 3 x + 9$$

$$y= d/dx (2x3)- d/dx (3x) +d/dx(9)$$

$$y1= 2 d/dx (x3)- 3 d/dx (x)$$

$$y1= 6x2-3$$

2.- Y = 4 / X2

$$y= 4/x2= 4d/dx\ 1/ x2= 4d/ dx\ x\ -2 = -8\ x-3$$

$$-8/ x3$$

3.- Y = 5 / 4 + X2

$$y= 5/ 4 + x\ 2$$

$$y1 = d/ dx (5/ 4) + d / dx (x2)$$

$$y1 = 2x$$

PROBLEMARIO

4.- Y = X + 2 / X

$$x+ 2/ x$$

$$y1 = d/ dx (x) + 2 d / dx (1/ x)$$

$$1 + 2 d/ dx (x-1)$$

$$1 + 2x-2$$

$$1+ 2 / x2$$

5.- Y = (a – bx)2

$$(a2-bx) 2 (a- bx)$$

$$(a2 + abx$$

$$-abx +bx2$$

$$a2 - 2abx + b2x2$$

6.- Y = 2 / X2 + 4

$$y= a2- 2xbx + b2 x2$$

$$d/ dx (a2 - 2xbx +b2 x2)$$

$$a2 / d x 0 \quad 2xbx / d x 0 + b2 x2 / dx0$$

$$0- 2b$$

$$y= 2 (x2+ 4)-1$$

$$d/dx= 2(-1)(x2+4) -2 (2x)= - 4x/ (x2 + 4) 2$$

$$d/ dx =- 4x/ (x2 + 4) 2$$

PROBLEMARIO

7.- Y = (1 + 2X) 2

$$y= (1 + 2x)2$$

$$2(1 + 2x)$$

$$2$$

$$d/ dx = 2 (1+ 2x) 2 =4(1 + 2x)$$

8.- Y = 2 – X / X – 2

$$y = 2 - x / x - 2$$

$$d / dx = v *u -u* v / v2$$

- $u= 2- x \quad u1 = -1$
- $v = x -2 \quad v1 = -1$

$$d/ dx = (x- 2) (-1) - (2- x) (1) / (x - 2) 2$$

$$-(x- 2) - (2-x) = -x +2 -2+ x = 0$$

$$d/ dx = 0$$