Nombre de alumnos: Jorge Daniel Hernández González

Nombre de la profesora: Rosvani Margine Morales Irecta

Nombre del trabajo: Entrega de ejercicios

Materia: Biomatematicas

Grado: 2

Grupo: C

Comitán, Chiapas a 20 de febrero del 2022.

1
2
2.5x2.5
125
50
6.25

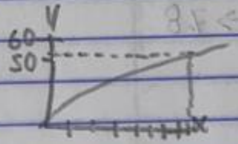
$\lim\limits_{X \Rightarrow 2.5} x^2$ $\quad \lim x^2 = (2.5)^2 = 6,25$

$\lim\limits_{x \to 1.5} x^2$ $\quad \lim x^2 = (1.5)^2 = 2.25$

$\lim\limits_{X \Rightarrow 3} x^2$ $\quad \lim x^2 = (3)^2 = 9$

$\lim\limits_{x \to 1} \frac{x^2-1}{x-1}$ $\quad \lim x^2 = (1)^2 - 1 = 0$
$\quad \lim x = 1 - 1 = 0$

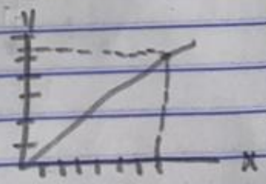
$\Rightarrow = \frac{(x+1)(x-1)}{(x-1)} = (x+1) = (1+1) = 2$



$\lim\limits_{pH(x) \Rightarrow 7.2} x^2$ $\quad \lim x^2 = (7.2)^2 = 51.84$

$\lim\limits_{pH(x) = 7.4} x^2$ $\quad \lim x^2 = (7.4)^2 = 54,76$

$\lim\limits_{pH(x) \Rightarrow 7.6} x^2$ $\quad \lim x^2 = (7.6)^2 = 57.76.$



$\lim\limits_{pH(x) \Rightarrow 7.5} x^2$ $\quad \lim x^2 = (7.5)^2 = 56.25$

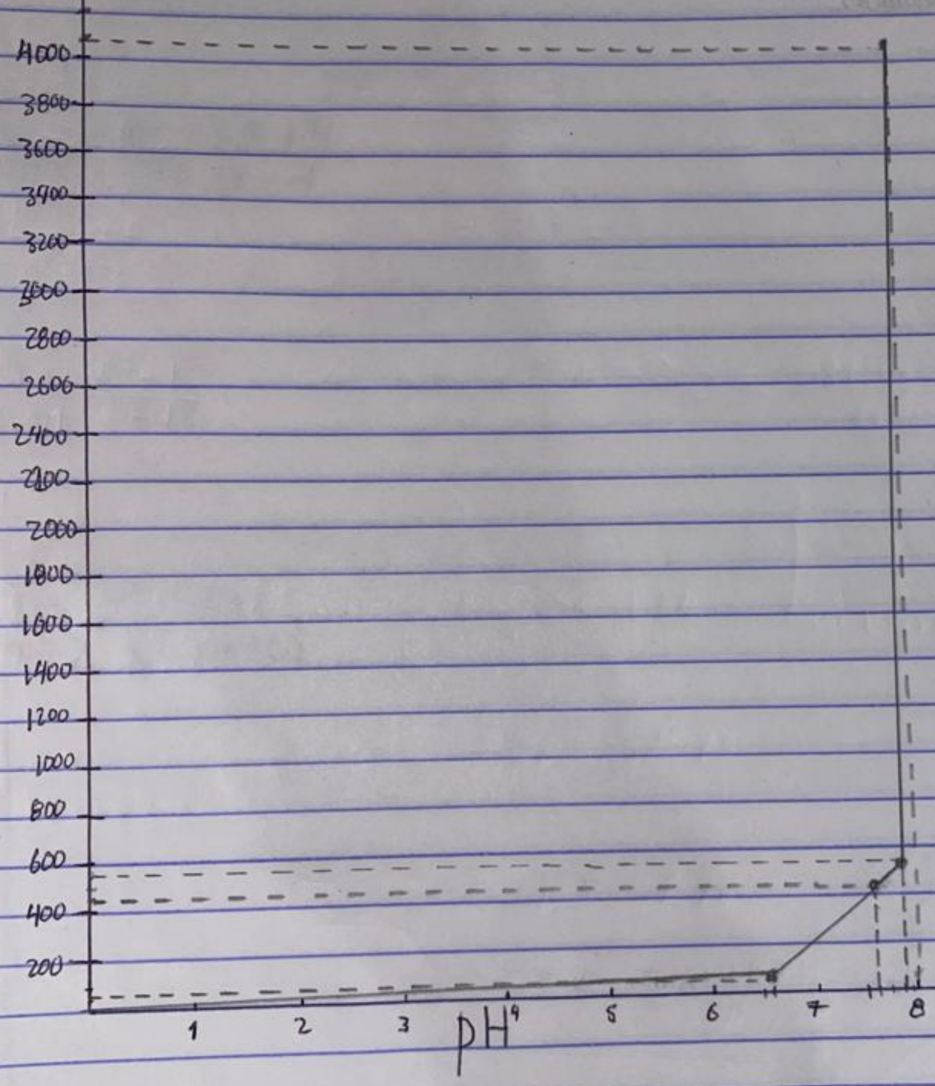
x^4

$\lim_{pH \to 6.6} x^2 \qquad \lim x^2 = (6.6)^2 = 43.56$

$\lim_{pH \to 7.6} x^3 \qquad \lim x^3 = (7.6)^3 = 438.976$

$\lim_{pH \to 7.8} x^3 \qquad \lim x^3 = (7.8)^3 = 474.552$

$\lim_{pH \to 8} x^4 \qquad \lim x^4 = (8)^4 = 4096$


4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
1
2
3
4
5
6
7
8
pH

$$\frac{2\times 2\times 2}{8\quad 4}$$

Propiedades de los limites.

$$\lim_{x \to 3} x = 3$$

$$\lim_{x \to a} x^n = a^n \qquad \lim_{x \to 3} x^2 \quad 3^2 = 9$$

$$\lim_{x \to a} \sqrt[n]{x} = \sqrt[n]{a} \qquad \lim_{x \to 2} \sqrt[2]{2} = 1{,}41$$

$$\lim_{x \to 2} 3x^3 \quad 3 \lim_{x \to 2} x^3 = 3(2)^3 = 3(8) = \boxed{24}$$

$$\frac{\overset{3}{16}\times 6}{92}$$

$$\lim_{x \to 4} 6x^2 \quad 6 \lim_{x \to 4} x^2 = 6(4)^2 = 6(16) = 92$$

$$\lim_{x \to 3} 3x + 4x \qquad 3 \lim x + 4 \lim_{x \to 3} x$$

$$3(3) + 4(3) = 9 + 12 = 21$$

$$\lim_{x \to 2} 4x^2 \cdot 3x^2 \quad 4\lim (2)^2 \cdot 3(2)^2 = 16 \cdot 12 = 192$$

$$\lim_{x \Rightarrow 2} \genfrac{}{}{0pt}{}{x^2-2x}{x^3-2x} \qquad \lim_{x \Rightarrow 2} \frac{x^2-2}{x^3+3} =$$

$$\frac{\lim_{x \Rightarrow} x^2}{\lim_{x \Rightarrow 2} x3} = \qquad \lim_{x \Rightarrow 2} \frac{x^2 2}{x^3+3} \quad \frac{\lim_{x \to 2} x^2-2}{\lim_{x \Rightarrow 2} x^3+3} = \frac{\lim 4-2}{\lim 8+3} = \frac{2}{11} =$$

$$\lim_{x \to 2} \genfrac{}{}{0pt}{}{\overset{P}{x^2} - \overset{C}{2}}{x_3+3} \qquad \frac{-2\left(\lim_{x \Rightarrow 2} x^2\right)}{3\left(\lim_{x \to 2} x^3\right)} = \frac{-2(2)^2}{3(2)^3} = \frac{-2(4)}{3(8)}$$

5.5×5.5 10.95

$$\frac{-8}{24} = 0,333$$

PH6 $\lim_{x \to 6} K f(x)$

$\lim 6(6) = 36$

PH9 $\lim_{x \to 9} K f(x)$

$\lim 9(9) = 81$

PH5.5

$\lim_{x \to 5.5} K f(K)$

$\lim 5.5(5.5) = 30.25.$

PO^2 (n-Hg) = 80

Lim 80 (0) = 840 po^2 80-100

480 - 10.600

Lim 80 (a) = 720 Po^2 80-100

720 - 11.111

Lim 80 (55) = 440 Po^2 80-100

440 - 18.81

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$$\lim_{x \to 2} \frac{4x + 2x}{3x - 2x}$$

$$\lim \frac{4(2) + 2(2)}{3(2) - 2(2)} = \frac{8+4}{6-4} = \frac{12}{2} = \underline{6}$$

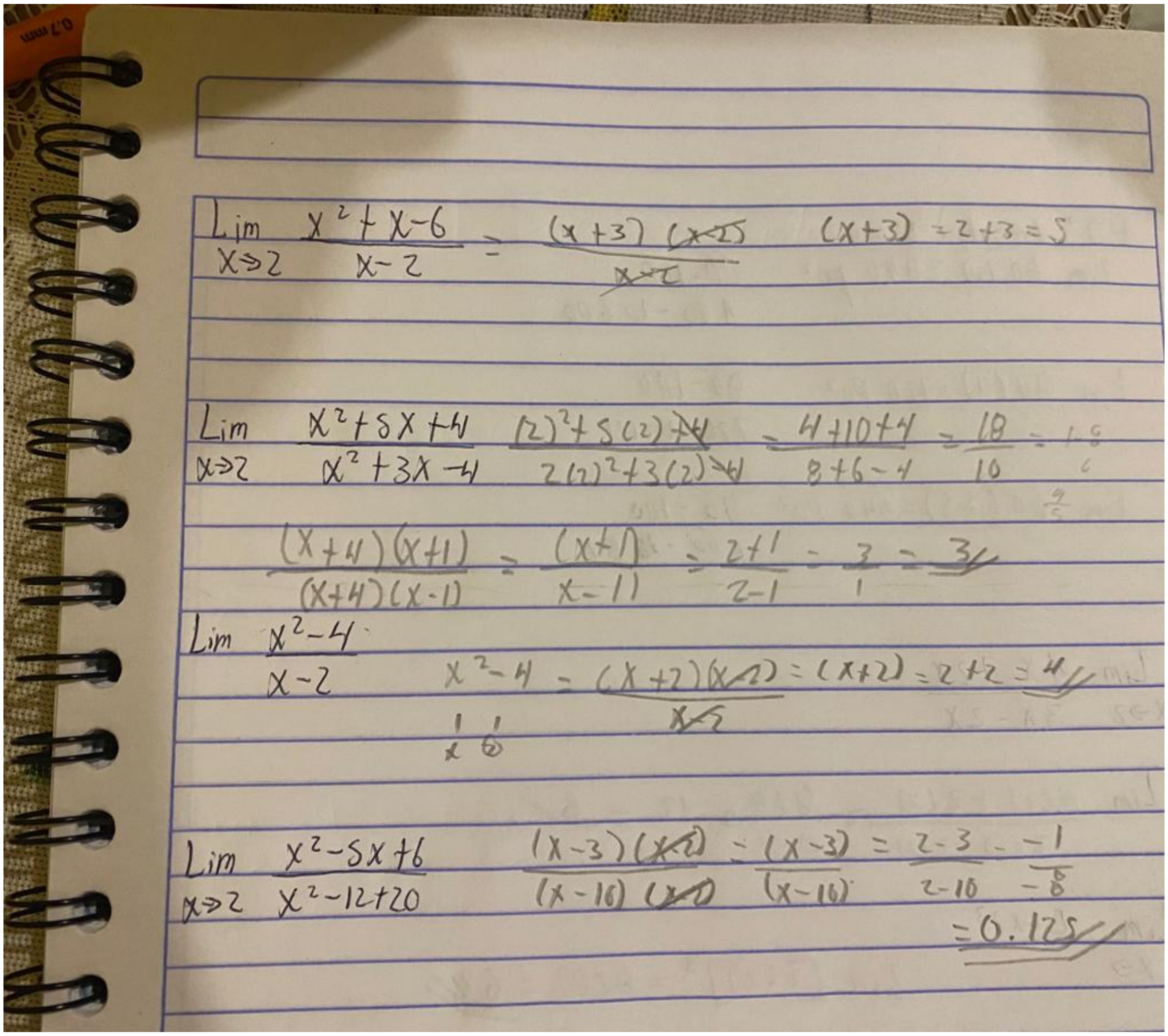
$$\lim_{x \to} [2x]^3$$

$$\lim [2(2)]^3 = 8(8) = \underline{\underline{64}}$$

$$\lim_{x \to 6} \sqrt{2x}$$

$$\lim \sqrt{2(6)} = \sqrt{12} = 2\sqrt{3} \text{ o } 3.464$$

Norma



$$\lim_{x\Rightarrow 2}\frac{x^2+x-6}{x-2}=\frac{(x+3)\cancel{(x-2)}}{\cancel{x-2}}\quad (x+3)=2+3=5$$

$$\lim_{x\Rightarrow 2}\frac{x^2+5x+4}{x^2+3x-4}\quad\frac{(2)^2+5(2)+4}{2(2)^2+3(2)-4}=\frac{4+10+4}{8+6-4}=\frac{18}{10}=1.8$$

$$\frac{9}{5}$$

$$\frac{(x+4)(x+1)}{(x+4)(x-1)}=\frac{(x+1)}{x-1}=\frac{2+1}{2-1}=\frac{3}{1}=\underline{\underline{3}}$$

$$\lim\frac{x^2-4}{x-2}\qquad x^2-4=\frac{(x+2)\cancel{(x-2)}}{\cancel{x-2}}=(x+2)=2+2=\underline{\underline{4}}$$

$$\frac{1}{x}\ \frac{1}{2}$$

$$\lim_{x\Rightarrow 2}\frac{x^2-5x+6}{x^2-12+20}\qquad\frac{(x-3)\cancel{(x-2)}}{(x-10)\cancel{(x-2)}}=\frac{(x-3)}{(x-10)}=\frac{2-3}{2-10}=\frac{-1}{-8}$$

$$=\underline{\underline{0.125}}$$