



Universidad del Sureste  
Campus Comitán  
Licenciatura en Medicina Humana

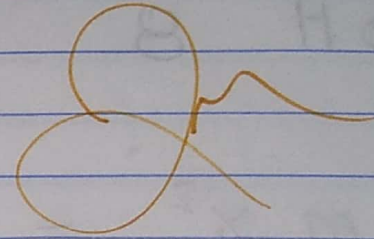
Tema: Poniendo límites  
Nombre de la Alumna: Hernández Aguilar Irma  
Natalia  
Grupo: "B" Grado: Segundo Semestre  
Materia: Biomatemáticas  
Nombre del Profesor: Rosvani Margine  
Morales Irecta

Comitán de Domínguez, Chiapas a 20 de febrero de 2022.

# BIOMATEMÁTICAS

$$\lim_{x \rightarrow 2.5} x^2 = (2.5)^2 = 6.25$$

$$\lim_{x \rightarrow 1.5} x^2 = 2.25$$



$$\lim_{x \rightarrow 3} x^2 = 9$$

$$\lim_{x \rightarrow 1} \frac{x^2 - 1}{x - 1} = \frac{(1)^2 - 1}{1 - 1} = \frac{0}{0}$$

$$\frac{1-1}{1-1}$$



# EJERCICIOS

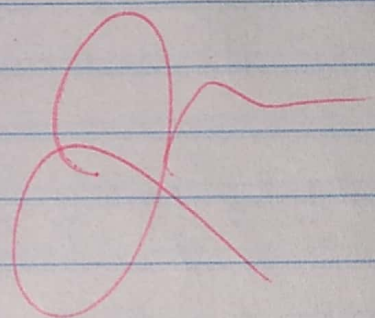
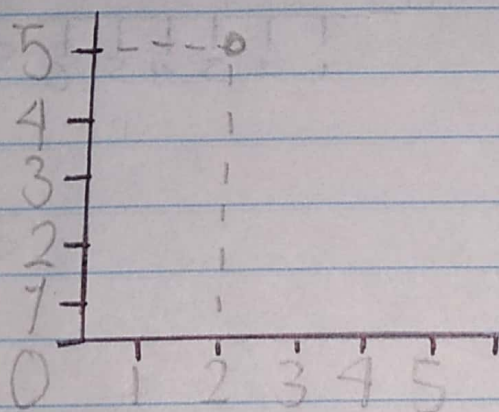
$$\lim_{x \rightarrow 2} \frac{x^2 + x - 6}{x - 2}$$

$$\text{SOS } \frac{(2)^2 + 2 - 6}{2 - 2}$$

$$\lim_{x \rightarrow 2} \frac{(x-2)(x+3)}{(x-2)} = (x+3)$$

$$= 2 + 3 = 5$$

$$\text{SOS } \frac{4 + 2 - 6}{0} = \frac{0}{0}$$



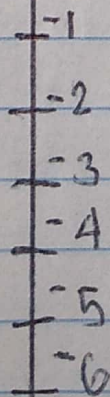
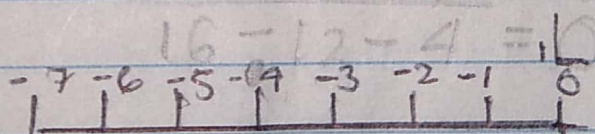
$$\lim_{x \rightarrow -4} \frac{x^2 + 3x + 4}{x^2 + 3x - 4}$$

$$\text{SOS } = \frac{(-4)^2 + 3(-4) + 4}{(-4)^2 + 3(-4) - 4}$$

$$\lim = \frac{(x+4)(x+1)}{(x-1)(x+4)}$$

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

$$= \frac{-3}{-5} = 0.6$$





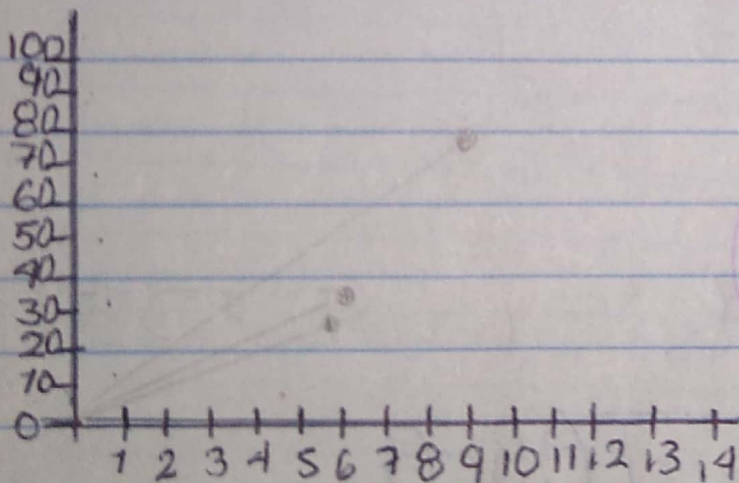
# EJERCICIO

pH 6     $x = k$      $\dot{C}$  Sat  $O^2$  Hb ?  
 pH 9                       $pO^2$  mm Hg  
 pH 5.5                      80 k

$$1 = \lim_{x \rightarrow 6} 6x = 6 \lim_{x \rightarrow 6} x = \lim_{x \rightarrow 6} 6(6) = 36$$

$$2 = \lim_{x \rightarrow 9} 9x = 9 \lim_{x \rightarrow 9} x = \lim_{x \rightarrow 9} 9(9) = 81$$

$$3 = \lim_{x \rightarrow 5.5} 5.5x = 5.5 \lim_{x \rightarrow 5.5} x = \lim_{x \rightarrow 5.5} 5.5(5.5) = 30.25$$



$$1 = \lim_{x \rightarrow 6} 80x = 80 \lim_{x \rightarrow 6} x = \lim_{x \rightarrow 6} 80(6) = 480$$

$$2 = \lim_{x \rightarrow 9} 80x = 80 \lim_{x \rightarrow 9} x = \lim_{x \rightarrow 9} 80(9) = 720$$



$$3. \lim_{x \rightarrow 5.5} 80x = 80 \lim_{x \rightarrow 5.5} x = \lim_{x \rightarrow 5.5} 80(x) = 940$$

