



PASIÓN POR EDUCAR

**Nombre de alumno:**  
Citlally Alejandra Morales Rubio.

**Nombre del profesor:**  
Sebastian Domingez Torrez

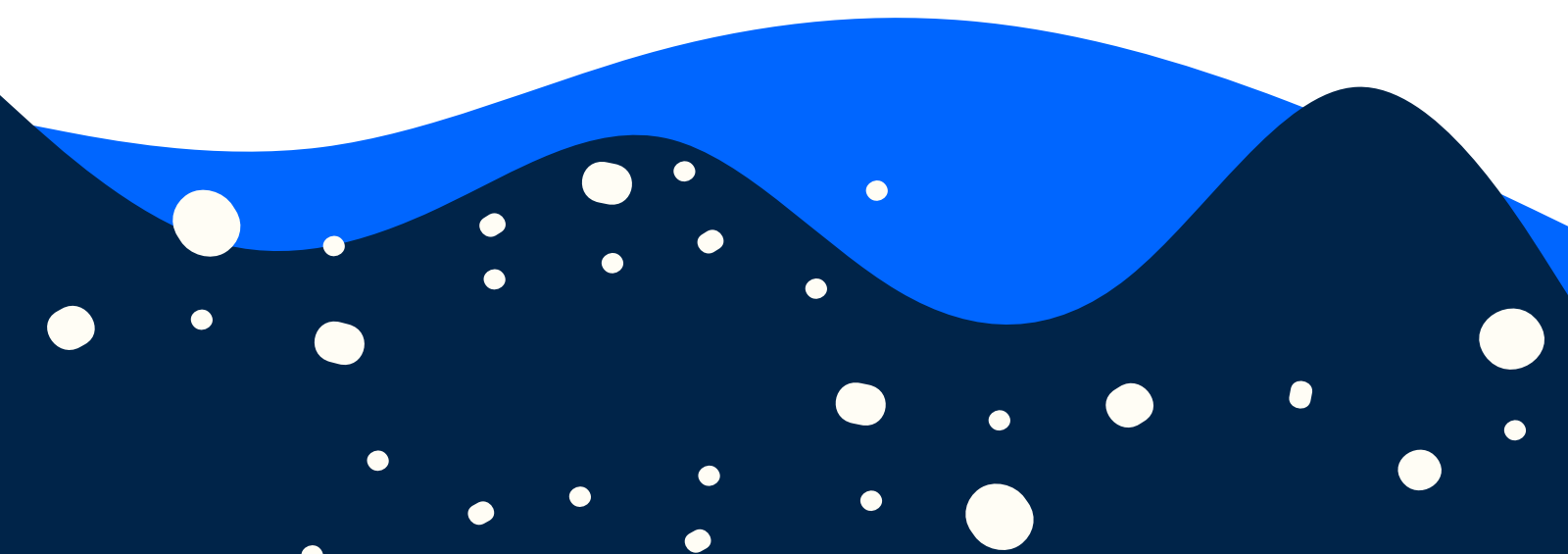
**Nombre del trabajo:**

Actividad

**Materia:** Submodulo 1 y 2

**Grado:** 6to cuatrimestre .

**Grupo:** "A" bachillerato.R.H.

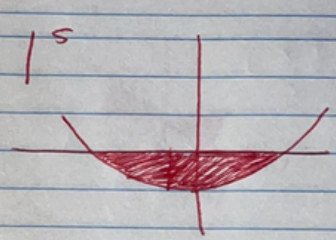


# Integrales

Determina el area/integral

$$f(x) = x^2 - 4x - 5 \quad |^5$$

$$\int_{-1}^5 x^2 - 4x - 5 \, dx$$

$$\int_{-1}^5 \frac{x^3}{3} - 2x^2 - 5x \, dx$$


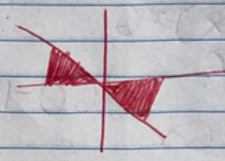
$$\left[ \frac{(5)^3}{3} - 2(5)^2 - 5(5) - \left( \frac{(-1)^3}{3} - 2(-1)^2 - 5(-1) \right) \right]$$

$$\left[ \frac{125}{3} - 50 - 25 - \left( -\frac{1}{3} - 2 + 5 \right) \right]$$

$$\frac{125}{3} - \frac{225}{3} + \frac{1}{3} + \frac{6}{3} - \frac{15}{3} \Rightarrow \frac{108}{3} \Rightarrow 36$$

El area / Integral Definida

$$f(x) = -x + 2 \quad |^5$$

$$\int_{-4}^5 -x + 2 \, dx$$


$$\int_{-4}^5 \frac{-x^2}{2} + 2x \, dx$$

$$\left[ \frac{-(5)^2}{2} + 2(5) \right] - \left[ \frac{-(-4)^2}{2} + 2(-4) \right]$$

$$\left[ \frac{-25}{2} + \frac{20}{2} + \frac{16}{2} + \frac{16}{2} \right]$$

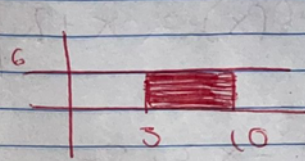
$$\frac{-5}{2} + \frac{32}{2} \Rightarrow \frac{27}{2} \Rightarrow 13.5$$

Determina el area / Integral Definida

$$f(x) = 6$$

$$y = 6$$

$$\int_3^{10} 6x \, dx$$

$$6 \cdot 10 - 18 \Rightarrow 42$$


A = 42

---

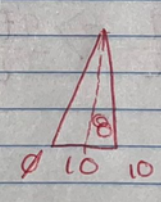
Determina el area / Integral determinada

$$f(x) = \frac{8x}{10}$$

$$m = \frac{\Delta y}{\Delta x}$$

$$m = \frac{h}{b}$$

$$\int_0^{10} \frac{8x}{10} \, dx$$

$$\frac{8x^2}{20} \Big|_0^{10}$$


A = 40

$$\int_0^{10} \frac{2x^2}{5} \Rightarrow \frac{2(10)^2}{5} \Rightarrow \frac{2(100)}{5}$$

A = 40