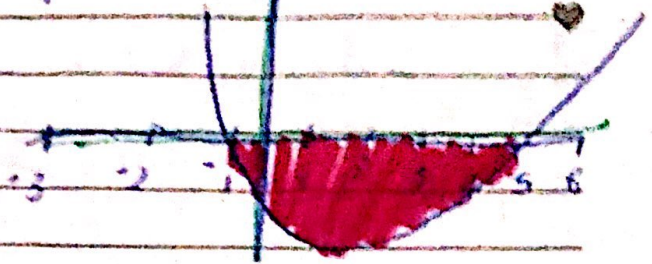


Determina el área / integral definida

$$f(x) = x^2 - 4x - 5$$

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



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

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

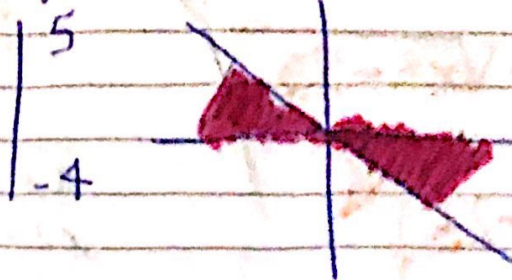
$$\frac{125}{3} - 50 - 25 - \left( -\frac{1}{3} - 2 + 5 \right)$$

$$\frac{125}{3} - \frac{2 \cdot 25}{3} + \frac{1}{3} + \frac{6}{3} - \frac{15}{3} \Rightarrow \frac{108}{3} \Rightarrow 36$$

Determina el area / integral definida

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

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



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

$$= \frac{-(25)}{2} + \frac{20}{2} + \frac{16}{2} + \frac{16}{2}$$

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

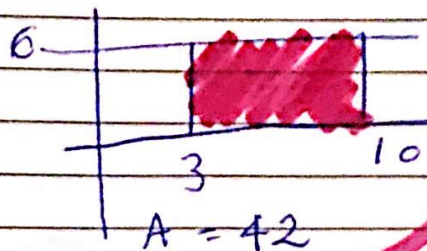
Determino el area

Integral definida

$$f(x) = 6$$

$$y = 6$$

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



$$60 - 18 \Rightarrow 42$$

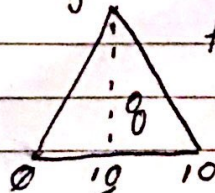
Determina el area

Integral definida

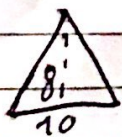
$$f(x) = \frac{0}{10}x$$

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

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



$$\int_0^{10} \frac{8x^2}{20}$$



$$\int_0^{10} \frac{2x^2}{5} \Rightarrow \frac{2(10)^3}{5} \Rightarrow \frac{2(1000)}{5} = \frac{2000}{5}$$

$$A = 40$$

libra