



Nombre del Alumno: Vanessa Citlali Morales Coutiño

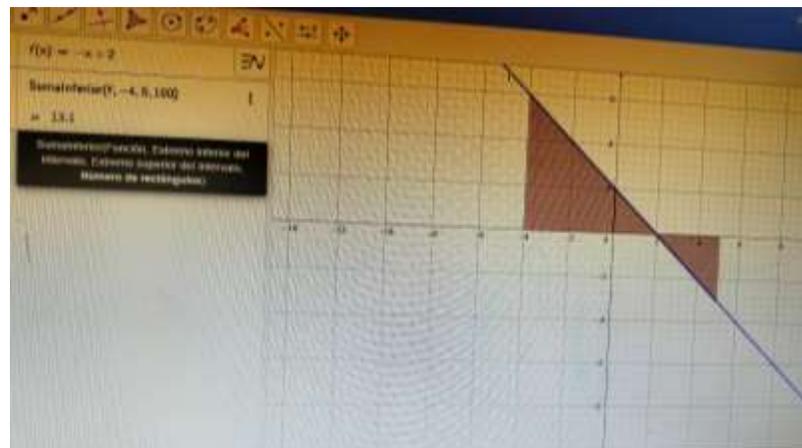
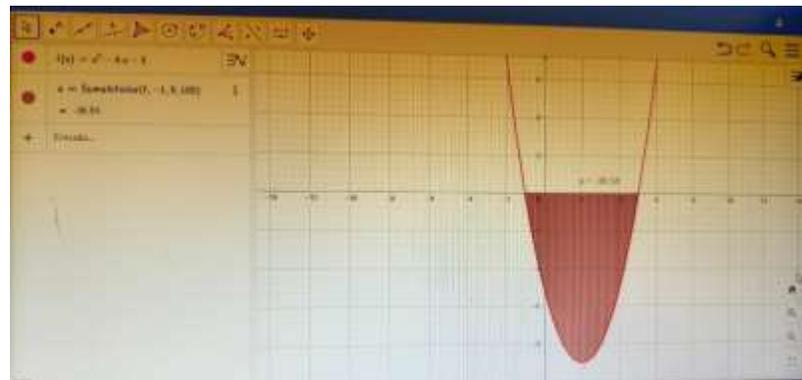
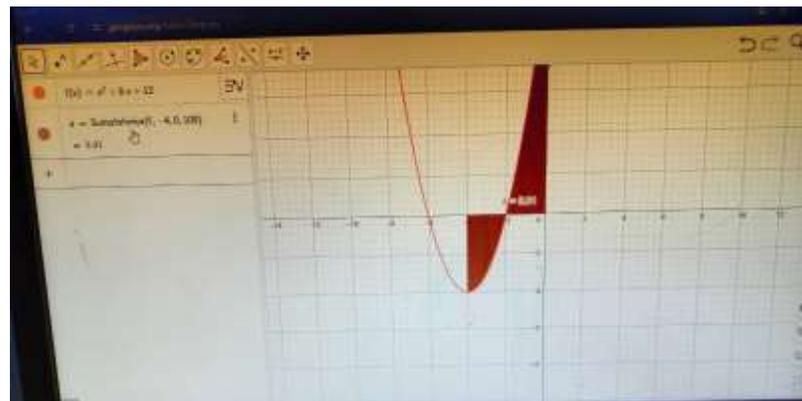
Parcial: 3

Nombre de la Materia: Matemática Aplicada

Nombre del profesor: Jorge Sebastián Domínguez Torres

Nombre de la Licenciatura: RH

Cuatrimestre: Sexto



$$\int_{-4}^0 x^2 + 8x + 12 \, dx$$

$$\int_{-4}^0 \frac{x^3}{3} + \frac{8x^2}{2} + 12x + C$$

$$\int_{-4}^0 \frac{x^3}{3} + 4x^2 + 12x + C$$

$$\left[\frac{(0)^3}{3} + 4(0)^2 - 12(0) - \left[\frac{(-4)^3}{3} + 4(-4)^2 + 12(-4) \right] \right]$$

$$\left[\frac{-64}{3} + 64 - 48 \right]$$

$$\left[\frac{-64 + 192 - 144}{3} \right]$$

$$\left[\frac{+16}{3} \right]$$

$$\rightarrow - \frac{-16}{3} = \frac{+16}{3} =$$

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

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

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

$$\frac{-25}{2} + 10 - \left[\frac{-16}{2} + 8 \right]$$

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

$$\frac{-5}{2} - \left[\frac{-32}{2} \right]$$

$$\frac{-5}{2} + \frac{32}{2} = \frac{27}{2} //$$

PLATAFORMA

$$\int_{-1}^5 |x^2 - 4x - 5| \frac{d}{dx}$$

$$\int_{-1}^5 \frac{x^3}{3} - 4x^2 - 5x + c$$

$$\frac{x^3}{3} - 2x^2 - 5x + c$$

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

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

$$\frac{125}{3} - 75 - \left[\frac{-1}{3} + 3 \right]$$

$$\frac{125}{3} - \frac{225}{3} - \left[\frac{-1}{3} - \frac{9}{3} \right] \Rightarrow \frac{100}{3} + \frac{10}{3} = \frac{110}{3}$$