



EJERCICIO

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Nombre del tema: Ejercicios

Semestre: 6

Nombre de la Materia: Matemática Aplicada

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Nombre de la Licenciatura: Bachillerato de Enfermería

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

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

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

$$\frac{8}{3} - 8 - \left[\frac{-8}{3} - 8 \right]$$

$$\frac{8}{3} - \frac{24}{3} - \left[\frac{-8}{3} - \frac{24}{3} \right]$$

$$\frac{16}{3} + \frac{32}{3} \Rightarrow \frac{48}{3} = 16$$

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

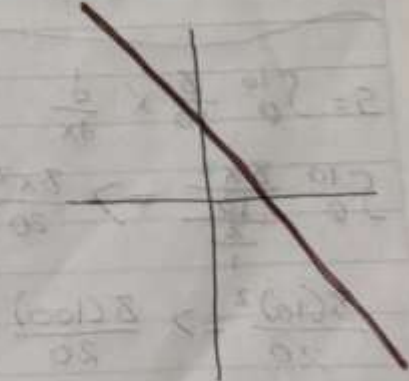
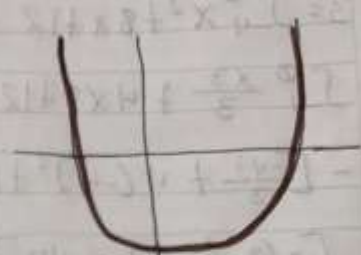
$$\int_{-4}^5 -x^2 + 2x + C$$

$$-(5)^2 + 2(5) - [(-4)^2 + 2(-4)]$$

$$-25 + 10 - [-16 - 8]$$

$$-15 - [-24]$$

$$-15 + 24 = 9$$



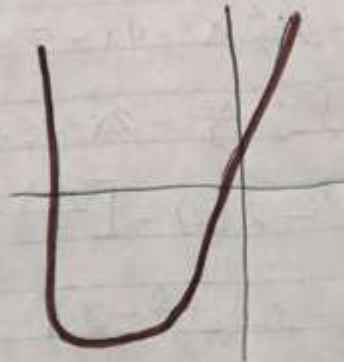
$$3 = \int_{-4}^0 x^2 + 8x + 12 \frac{d}{dx}$$

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

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

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

$$- \left[\frac{-64}{3} + \frac{192}{3} - \frac{144}{3} \right] = \frac{16}{3}$$

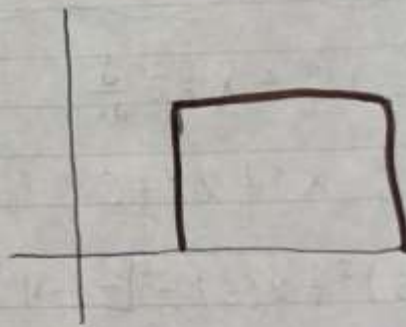


$$4 = \int_3^{10} 6 \frac{d}{dx}$$

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

$$6(10) - [6(3)]$$

$$60 - 18 \Rightarrow \underline{32}$$



$$5 = \int_0^{10} \frac{8}{10} x \frac{d}{dx}$$

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

$$\frac{8(10)^2}{20} \Rightarrow \frac{8(100)}{20}$$

$$8(5) \Rightarrow \underline{40}$$

