

MATEMÁTICA APLICADA

Jorge Sebastián Domínguez Torres



José Manuel Martínez Valdez

Sexto Cuatrimestre

Actividad 3 de plataforma

Bachillerato en Recursos Humanos

Comitán Chiapas.

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$$\delta_{-1}^5 X^2 - 4x - 5$$

$$\int \frac{5}{-1} \frac{x^3}{3} - \frac{4x^2}{2} - 5x + C$$

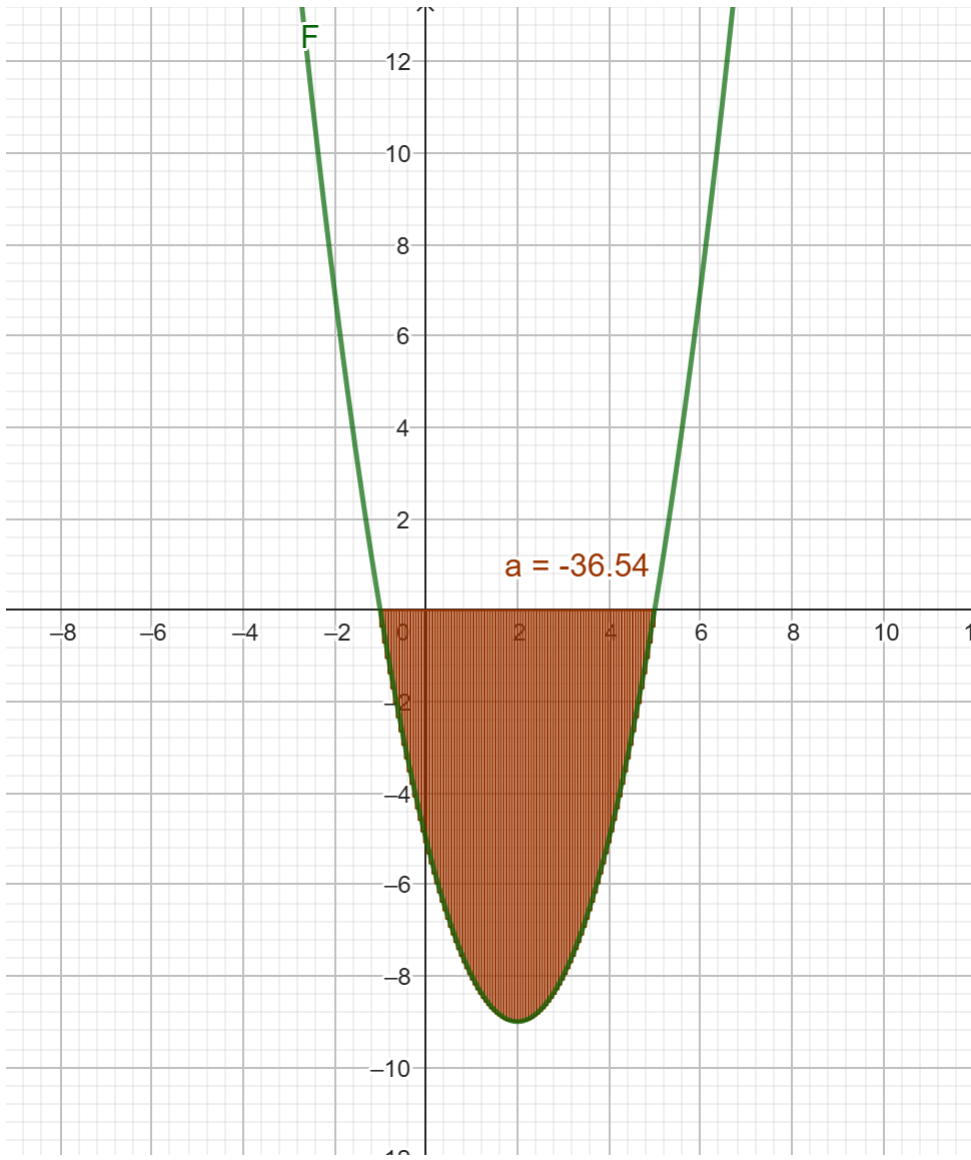
$$\frac{x^3}{3} - 2x^2 - 5x + C$$

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

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

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

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



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

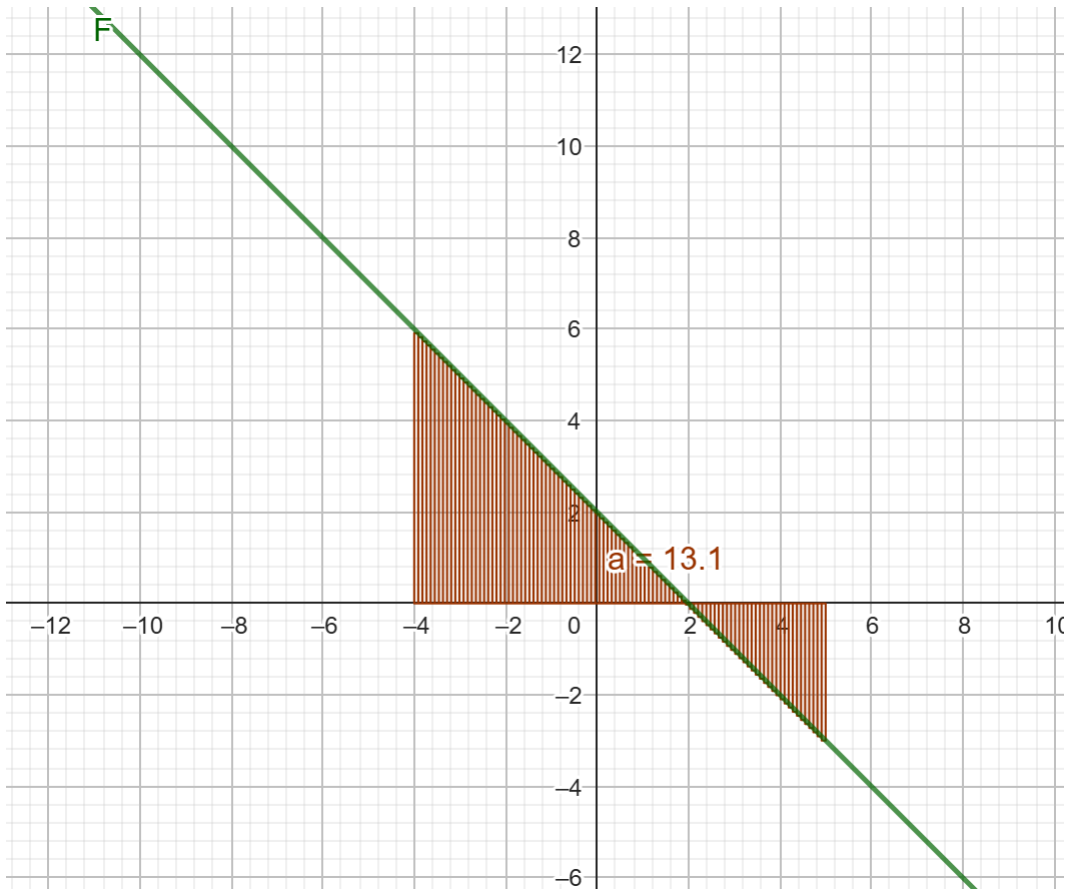
$$\int_{-4}^5 \frac{-x^2}{2} + 2x + C$$

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

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

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

$$-\frac{5}{2} - \left[\frac{32}{2} \right] = \frac{27}{2}$$



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

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

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

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

$$\frac{0}{3} + 4(0) - \left[\frac{64}{3} + 4(16) - 48 \right]$$

$$- \left[\frac{64}{3} + 64 - 48 \right] = - \left[\frac{176}{3} \right] = -\frac{176}{3}$$

