CYNTHIA JIMENEZ

$$\int_{-2}^{2} x^2 - 4x - 5 \; \frac{D}{Dx}$$

(1)

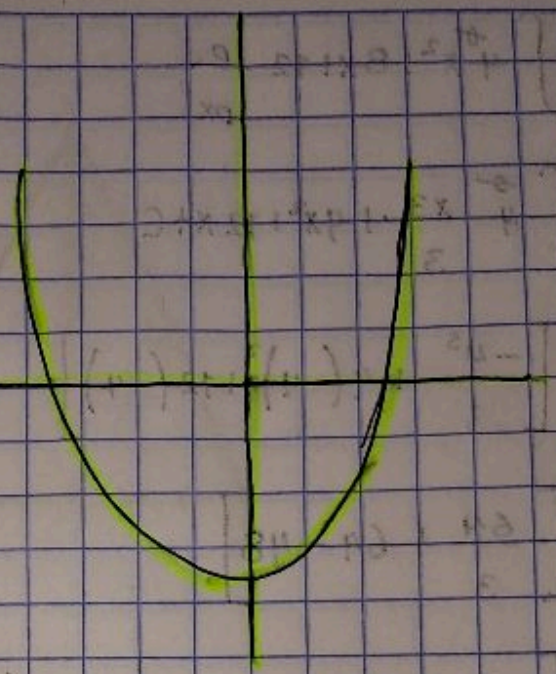
$$\int_{-2}^{2} \frac{x^3}{3} - 2x^2 - 5x + C$$

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

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

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

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



$$\int_{-4}^{5} -x + 2 \; \frac{D}{Dx}$$

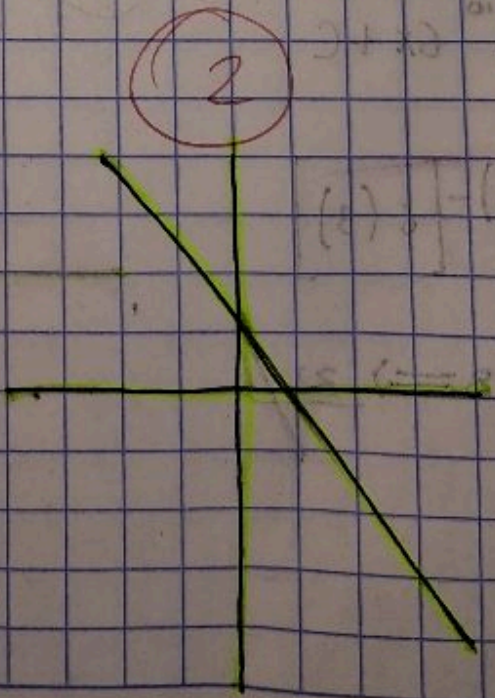
(2)

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

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

$$-25 + 10 - \left[-16 - 8\right]$$

$$-15 - \left[-24\right] \qquad -15 + 24 \Rightarrow 9$$



(3)

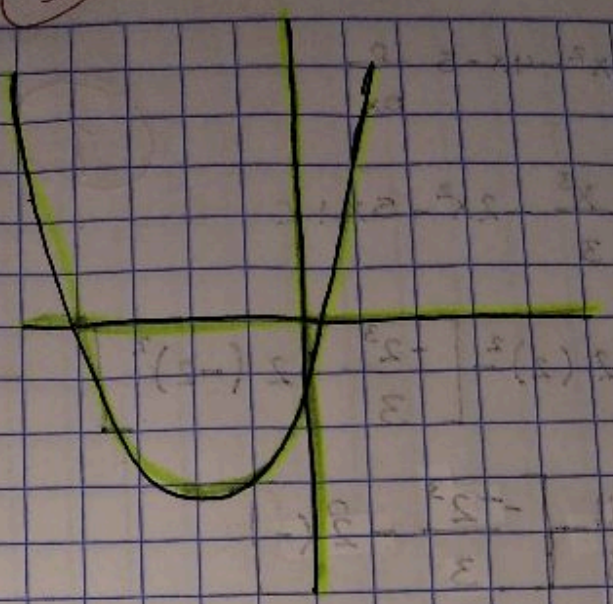
$$\int_{-4}^{0} x^2 + 8x + 12 \; \frac{d}{dx}$$

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

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

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

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



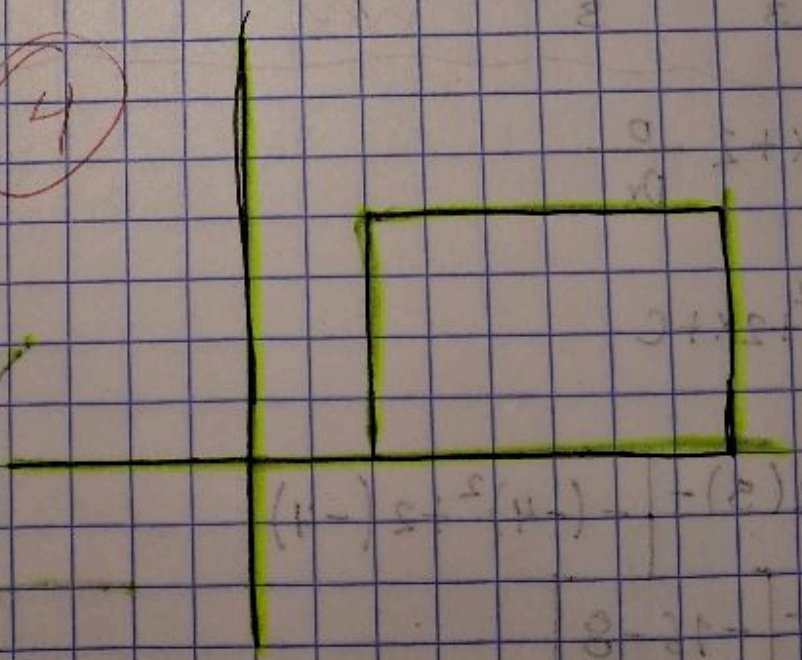
(4)

$$\int_{3}^{10} 6 \; \frac{d}{dx}$$

$$\int_{3}^{10} 6x + C$$

$$6(10) - \left[6(3)\right]$$

$$60 - 18 \Rightarrow 32$$



$$\int_{\emptyset}^{10} \frac{8}{10} \times \frac{D}{Dx}$$

$$\int_{\emptyset}^{10} \frac{8x^2}{10} \Longrightarrow \frac{8 \times 2}{20}$$

$$\frac{2}{1}$$

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

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