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Nombre del trabajo: Integrales

Materia: Matematicas Aplicadas

Grado: 1ero Bachillerato.

Grupo: Recursos humanos.

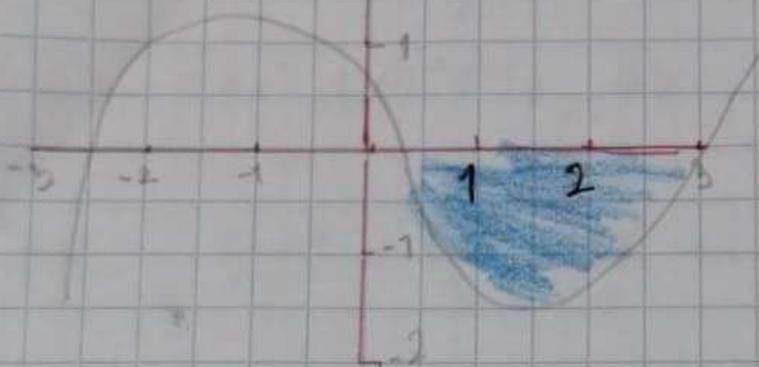
Comitán de Domínguez Chiapas a 11 de Junio de 202

Integral definida gráfica.

$$① \int_0^3 9x^2 - 6x - 4 \, dx$$

$$\int_0^3 \frac{9x^3}{3} + \frac{6x^2}{2} - \frac{11}{x} + c \, dx$$

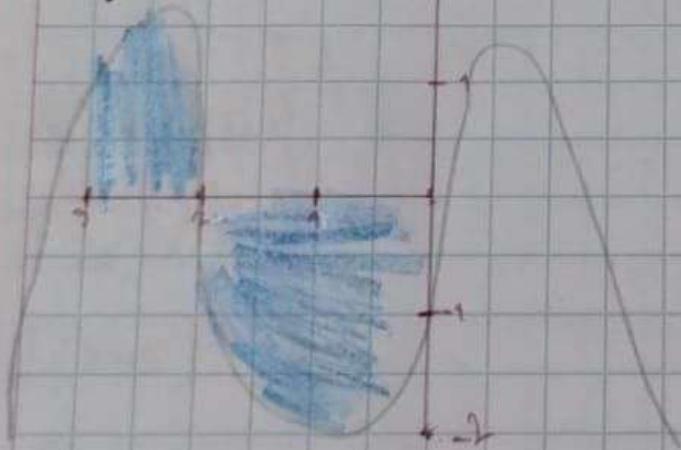
$$\int_0^3 3x^3 + 3x^2 - \frac{11}{x} + c \, dx$$



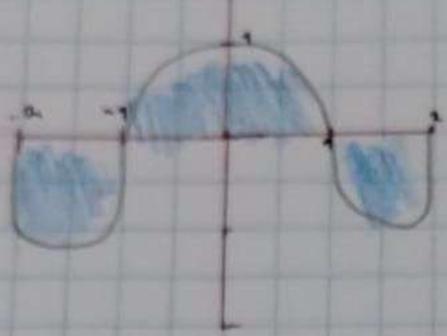
$$② \int_{-3}^8 15x^4 - 12x^3 + 6x^2 + 4x \, dx$$

$$\int \frac{15x^5}{5} - \frac{12x^4}{4} + \frac{6x^3}{3} + \frac{4x^2}{2} + c + dx$$

$$\int 3x^5 - 3x^4 + 2x^3 + 2x^2 + c + dx$$



③ $\int_{-2}^2 (2x+10)^3 dx$ 3er grado \rightarrow 4to grado.

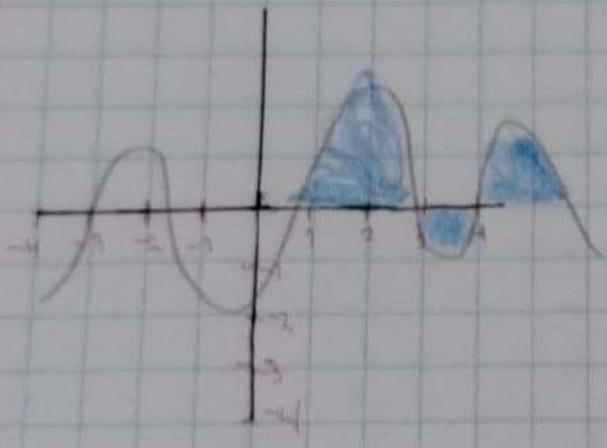


$$\int x^3 + 10x^2 + 25x + c dx$$

$$\int \frac{x^3}{3} + \frac{10x^2}{2} + 25x + c dx$$

$$\int \frac{x^3}{3} + 5x^2 + 25x + c dx$$

④ $\int_0^{\infty} 2x(x^2+2)^2 dx$

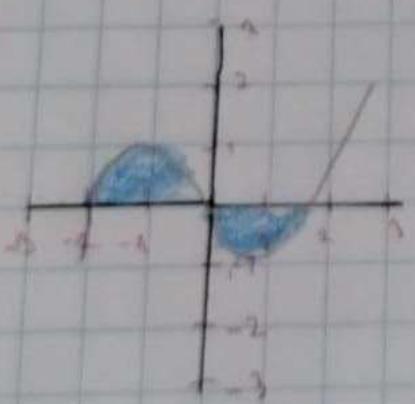


$$\int 8x^3 + 120x^2 + 600x + 1,000 dx$$

$$\int \frac{8x^4}{4} + \frac{120x^3}{3} + \frac{600x^2}{2} + 1,000x dx$$

$$\int 2x^4 + 40x^3 + 300x^2 + 1,000x + c$$

⑤ $\int_{-1}^1 (x+5)^2 dx$



$$\int 2x^2 + 10x + 25 dx$$

$$\int \frac{x^3}{3} + \frac{10x^2}{2} + 25x + c dx$$

$$\int \frac{x^3}{3} + 5x^2 + 25x + c dx$$