



PASIÓN POR EDUCAR

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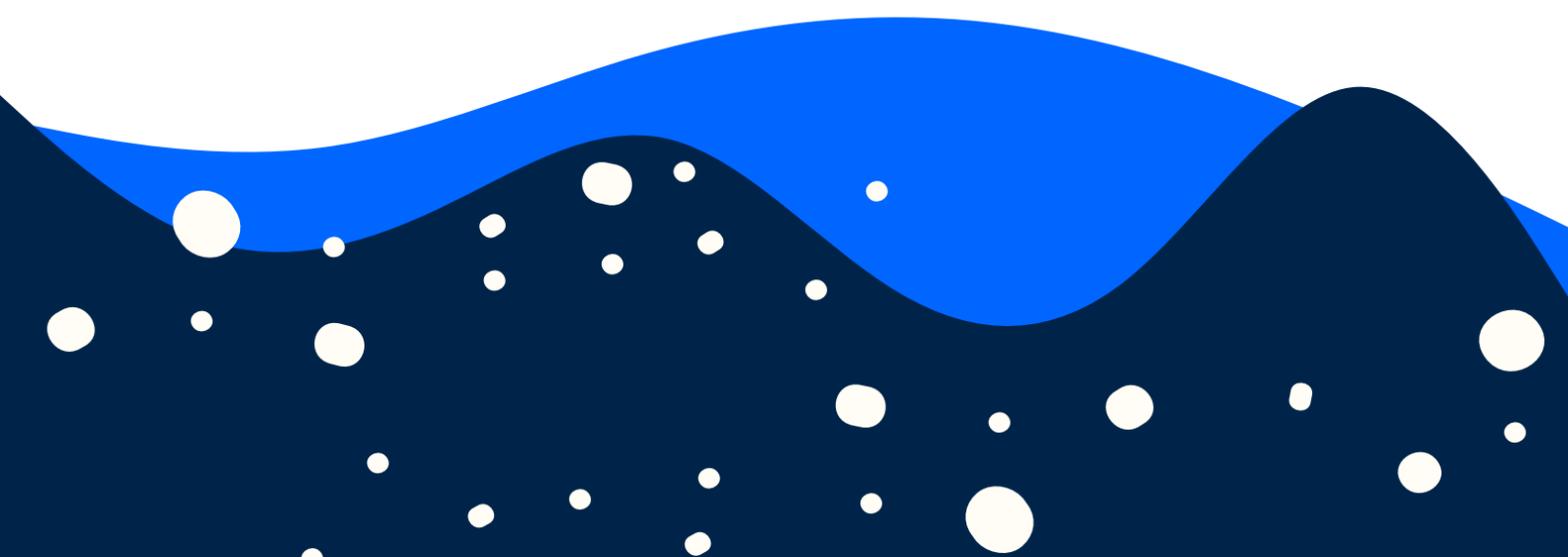
**Nombre del trabajo:**

Actividad

**Materia:** Submodulo 1 y 2

**Grado:** 6to cuatrimestre .

**Grupo:** "A" bachillerato.R.H.



# Integrales

matematica Aplicada

## Integrales

①  $\int 9x^2 + 6x + 11 dx$   
 $\int \frac{9x^2}{3} + \frac{6x^2}{2} + 11x dx$   
 $\int 3x^3 + 2x^2 + 11x + C dx$

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

③  $\int (x+5)^2 dx$   
 $\int x^2 + 10x + 25 dx$   
 $\int \frac{x^3}{3} + \frac{10x^2}{2} + 25x + C dx$   
 $\int \frac{x^3}{3} + 5x^2 + 25x + C dx$

## \*continuación

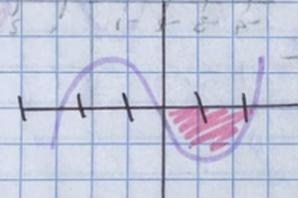
④  $\int (2x+10)^3 dx$   
 $\int 8x^3 + 120x^2 + 600x + 1000 dx$   
 $\int \frac{8x^4}{4} + \frac{120x^3}{3} + \frac{600x^2}{2} + 1000x + C dx$   
 $\int 2x^4 + 60x^3 + 300x^2 + 1000x + C dx$

⑤  $\int 2x(x^2+2)^2 dx$   
 $\int 2x^5 + 6x^3 + 8x dx$   
 $\int \frac{2x^6}{6} + \frac{6x^4}{4} + \frac{8x^2}{2} + C dx$   
 $\int \frac{x^6}{3} + \frac{3x^4}{2} + 4x^2 + C dx$

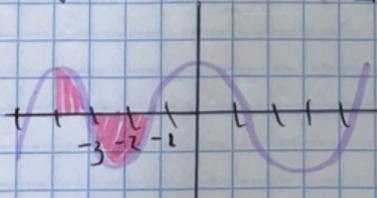
## Graficas

### Integral definida gráfica

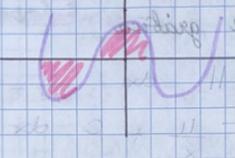
1  $\int_0^2 9x^2 + 6x - 11 dx$   
 $\int_0^2 \frac{9x^3}{3} + \frac{6x^2}{2} - \frac{11}{x} + C dx$   
 $\int_0^2 3x^3 + 3x^2 - \frac{11}{x} + C dx$



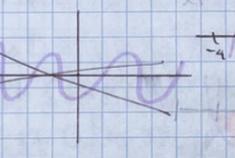
2  $\int_{-3}^0 15x^4 - 12x^3 + 6x^2 + 4x dx$   
 4° grado → 5° grado  
 Derivada → ↓      Integral ↑



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



4  $\int_0^2 2x(x^2+2)^2 dx$



5  $\int_{-1}^1 (x+5)^2 dx$

