



I.- Resolver las siguientes integrales:

$$\int x^n dx = \frac{x^{n+1}}{n+1} + c$$

1) $\int (x^4 - x^3 + x^2 + 7) dx =$

2) $\int (4x^2 - 6x + 3) dx =$

3) $\int (2x+3)^2 dx = \int () dx =$

4) $\int (x+3)(x-3) dx = \int (x^2) dx =$

5) $\int (x+2)(x-4) dx =$

6) $\int \sqrt[6]{x} dx = \int x dx =$

7) $\int x^3(x^2 - 5) dx =$

8) $\int \frac{2}{x^5} dx =$

9) $\int (5\sec^2 x - 4\cos x) dx =$

10) $\int \frac{x^2 + 2x - 24}{x+6} dx = \int -dx =$

II.- Resolver las siguientes integrales definidas:

$$\int_a^b f(x)dx = F(b) - F(a)$$

1) $\int_1^2 x dx = - \Big|_{x=1}^{x=2} =$

2) $\int_0^4 x^2 dx = - \Big|_{x=0}^{x=2} =$

3) $\int_3^6 (x+3) dx = \Big|_{x=3}^{x=6} =$

4) $\int_2^5 (2x^2 + 6x + 3) dx = \Big|_{x=2}^{x=5} =$