

Pregunta 1.

$$\int \frac{x+4}{x^2+6x+18} dx$$

$$\int \frac{x+4}{(x+3)^2+9} \, dx$$

$$\int \frac{(\upsilon-3)+4}{\upsilon^2+9} d\upsilon$$

$$\int \frac{U+1}{U^2+q} dU$$

$$\int \frac{U}{U^2 + q} dU + \int \frac{1}{U^2 + q} dU$$

\* (emplemento de cuadrado  

$$\left(\frac{6}{2}\right)^3 = \left(\frac{6}{2}\right)^2 = 3^2 = 9$$

$$= x^{2} + 6 \times 49 - 9 + 18$$

$$= (x + 3)^{2} + 9$$

$$U=x+3$$
  $U-3=x$   $du=dx$ 

$$\frac{dz}{z} = Jdu$$

$$(x+3)^{2}+9$$
  
=  $x^{2}+6x+9+9$   
=  $x^{2}+6x+9+9$