

EJERCICIOS PARA LA TAREA 01-U3

Resolver la siguiente integral

$$\int \arctg \sqrt{x} dx$$

$$\int x \sec^2 x dx$$

$$\int x \operatorname{tg}^2 x dx$$

$$\int x \operatorname{sen} x \cos x dx$$

$$\int \cos^2 x \cdot \operatorname{sen}^2 4x dx$$

$$\int \operatorname{sen}^3 x \cdot \cos^3 x dx$$

$$\int \frac{x^2 - 3x - 8}{x^2 - 2x + 1} dx$$

$$\int \frac{dx}{\sqrt{x}(1 + \sqrt{x})}$$

$$\int x \sqrt{x + 1} dx$$

$$\int \operatorname{sen} 5x \cos x dx$$

$$\int \frac{dx}{x(x^2 + 8)^2}$$

$$\int \frac{100x dx}{(x - 3)(x^2 + 1)^2}$$

$$\int \frac{e^x dx}{e^{2x} - e^x}$$

$$\int \frac{dy}{\sqrt{y^2 - 9}}$$

$$\int \frac{x^2 dx}{(x^2 - 1)^{3/2}}$$

$$\int x^3 \sqrt{9 - x^2} dx$$