simulacro Parcial 1.

1.
$$E_{UA10C}$$
 $aV - \int V du$.

 $AV - \int V du$

$$\int \frac{1}{\sqrt{(t-2)^2+9^2}} dt.$$

$$\int \frac{1}{\sqrt{(t-2)$$

Miranda
$$\int_{0}^{\ln 2} \frac{e^{4x}}{\sqrt{e^{2x}-1}} dx = \int_{1}^{2} \frac{u^{3}}{\sqrt{u^{2}-1}} du$$
.

 $u = e^{x}$ $u(\ln 2) = e^{\ln 2} = 2$. $u^{3} = e^{3x}$
 $du = e^{x} dx$ $u(0) = e^{0} = 1$
 $u = \sec \theta$.

 $u = \cot \theta$.

= 31/2 + Sec-1(2).

2 b)
$$\int_{0}^{\pi/2} \frac{\cos t}{\sqrt{1+\sin^{2}t}} dt = \int_{0}^{1} \frac{\int u}{\sqrt{1+u^{2}}} = \int_{0}^{\pi/4} \frac{\sec^{2}\theta}{\sec^{2}\theta} d\theta$$

$$u = \sin t \qquad u(\pi/2) = \sin(\pi/2) = 1$$

$$du = \cos t dt \qquad u(0) = \sin(0) = 0$$

$$u = \tan \theta \qquad du = \sec^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \sec^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \tan \theta \qquad du = \cot^{2}\theta d\theta.$$

$$u = \cot^{2}\theta$$