- Coly(x). o( + ln/ sen x ) ] =

 $\left(-C_{\sigma}^{2}\left(\frac{1}{2}\right)\cdot\frac{1}{2}+\ln|\operatorname{Sen}\left(\frac{1}{2}\right)-\left(-C_{\sigma}^{2}\left(\frac{1}{2}\right)\cdot\frac{1}{2}+\ln|\operatorname{Sen}\left(\frac{1}{2}\right)-\left(-C_{\sigma}^{2}\left(\frac{1}{2}\right)\cdot\frac{1}{2}+\ln|\operatorname{Sen}\left(\frac{1}{2}\right)-\left(-C_{\sigma}^{2}\left(\frac{1}{2}\right)\cdot\frac{1}{2}\right)\right)\right)$ 

d (outs(v) = 1

 $\int_{0}^{\infty} \frac{1}{x^{2}+1} - 1 dx = -\int_{0}^{\infty} \frac{1}{x^{2}+1} dx = -\int_{0}^{\infty} \frac{1}{x^{2}+1} dx = -\frac{1}{2} \ln |u| = -\frac{1}{2} \ln |u$ 

 $\frac{1}{12} - \frac{1}{14\left(\frac{1}{x}\right)^{2}} - \frac{1}{$ 

 $\frac{1}{2^{2}} = -\frac{1}{2^{2}} = \frac{1}{2^{2}} =$ 

 $\frac{11}{9} + ln(2), \frac{1}{2}$ 

 $\int_{1}^{\sqrt{2}} \operatorname{ard}_{y}(\frac{1}{x}) \int_{X} \frac{\Gamma - \lambda}{\Gamma} \frac{\Gamma}{\Gamma}$ 

o(, we y(1) - ) X, -1 dx

U= 12+1 -> du= 2xdx -> du= xdx

or. areta (1) - (-1 lm/x2+1)

 $\left[ \times \operatorname{arctg}\left(\frac{1}{K}\right) + \frac{1}{2} \ln \left| x^2 + 1 \right| \right]^{\sqrt{3}}$ 

 $\left[\frac{1}{2}\left(2\times \operatorname{ant}_{g}\left(\frac{1}{x}\right)+\ln\left|1+x^{2}\right|\right)\right]_{1}^{\sqrt{3}}$ 

[ = (2V3 actg (+ h141) - 1 (2 ordy (4) + h121)

[ 1/2 ( \sqrt{3 1 + 2 h |2|} ) - 1/2 ( \frac{17}{2} + h |2|)

( T 13 + M121 - 11 - M121 )

7/3 - 1 + ln(2)

or. arctg (1) +1 lm | or2+11)

Si widg(1). xodx

 $-(-\frac{7}{4}-\frac{1}{2}\ln(2))$