Subject:....

12 Sus 2 Cuts 3

Jess was y

1, J' cot n dn

Cet, uz col-la

Wow,

But,
$$\int_{0}^{1} 2 - \frac{1}{1+n^{2}} dn = -\frac{1}{2} \int_{0}^{1} \frac{2\pi}{1+n^{2}} dn = -\frac{1}{2} \ln(1+n^{2}) \int_{0}^{1} dn$$

50.
$$\int_{0}^{1} \cot^{-1} x \, dx = x \cot^{-1} x \int_{0}^{1} - \left(-\frac{1}{2} \ln 2\right)$$

$$= x \cot^{-1} x \int_{0}^{1} + \frac{1}{2} \ln 2$$

$$= \left(\frac{\pi}{4} - 0\right) + \frac{1}{2} \ln 2$$

$$2, \int \sin^3 \pi \cos^9 \pi$$

$$2 - \frac{u^{10}}{10} + \frac{u^{12}}{12}$$

r1-100 el

by TEH - -

The La

= rb x l-twol

Subject :.....

Date :.....Time:.....

3. Jer 005 (22) dr

2 cos (271). en - Jen (-25in27) dn

= encos 2n + 2/en sin 2n dre

Z en cos2n + 2 [sin 2n.en] en 2. cos2n dn]

2 e20052n+2 5in 2n ex_ 4/e 2.00522 dn duz 20052n dn drzen dn drzen dn

itz ereos 2n+2en 8M2n-4[

3) II = e7 cos24 + 2e7 sin27

 $T = \frac{1}{5} \left(e^{\gamma} \cos 2\pi + 2e^{\gamma} \sin 2\pi \right)$

Let,