Juin Jurds, Oll Taccotes.

 $\begin{array}{c}
1 = \int \ln x \, dx = \int \ln t \, dt = 2 \ln 2 \int dt + t \\
2 + 2x + 4 \int 4t^2 + 2t + 4 \int 4t^2 + 2t + 1
\end{array}$ = 2 Cn 2 8t 5-12+2++1  $-\ln 2 \int_{2t+4}^{2} dt = -\ln 2 \int_{2t+4}^{2} d(2t-1) = 2 \int_{2t+4}^{2} d(2t-1)^{2} d(2t-1)^{2$  $= -\ln 2 \left( \frac{2 \arctan 4 2 (2+1)}{3 \arctan 2 (3-1)} \right) = -\ln 2 \left( \frac{1}{2} - \frac{1}{6} \right) = -\ln 2 \left( \frac{1}{2}$ = -ln2 FT