J et sn(et) cos(et)dt du = etcos(et)dt = d+ = ex Judu - U1 - SIN(et)+C e ∫ ex = ex+5 du=exdx → du 1/2 dx $\int \frac{e^{x}}{v} \frac{1}{e^{x}} dv \rightarrow \int \frac{1}{v} dv \rightarrow \ln(v) \rightarrow \ln(e^{x} + s) + C$ ∫ ex+5 → ∫ ex dx + ∫ exdx → x + ∫ exdx → x+ ∫ Sexdx → u: -x
du--1dx → dx=-du

U= tand du= se20d0 -> d0= se20 Suzdu - 13 + tand +c + tond - tond - 1 - 0 = (3)

h.
$$\int_{-\infty}^{e} \frac{3}{\sqrt{\ln x + 7}} dx du = \frac{1}{x} dx$$

$$\int_{-\infty}^{e} \frac{3}{\sqrt{\ln x + 7}} dx = \frac{3}{4} dx$$

$$\int_{-\infty}^{\infty} \frac{3}{\sqrt{\ln x + 7}} dx = \frac{3}{4} + \frac{3$$

 $\int \frac{3}{x^{2}10} \xrightarrow{\times} d0 \rightarrow \int \frac{3}{\sqrt{5}} \rightarrow \int \frac{3}{\sqrt{5}} \rightarrow 3 \int \frac{1}{\sqrt{5}} \rightarrow 3 \left(\frac{3\sqrt{5}}{2} \right) \rightarrow \frac{9\sqrt{5}}{2} \rightarrow \frac{9(\ln(e)+7)^{2/3}}{2} - \frac{9(\ln(6)+7)^{3/3}}{2}$

 $\rightarrow \frac{9(1+7)^{\frac{1}{3}}}{2} \rightarrow \frac{9(8)^{\frac{1}{3}}}{7} \cdot \frac{9(4)}{7}$ -> 18-9(6)25 36-9536

POWER RULE: Unti