$$\int \frac{\ln \ln n}{n} dn = \frac{1}{2} \int \ln n \cdot \frac{1}{n} dn = \frac{1}{4} \ln^2 n + k = \ln^2 \ln n + k$$

$$\int \frac{\ln \ln n}{n} dn = \frac{1}{2} \int \ln n \cdot \frac{1}{n} dn = \frac{1}{4} \ln^2 n + K = \ln^2 \ln n + K$$

$$= 2 \int \frac{\ln t}{t^2} t \cdot dt = 2 \int \frac{\ln t}{t} dt = \int \frac{\ln t}{n} dn = 2t dt$$

$$\frac{1}{2}\int \frac{\ln t}{t^2} t \cdot dt = 2 \int \frac{\ln t}{t} dt = \frac{\sin t}{n = t^2}$$

$$\frac{1}{2}\int \frac{300}{t^2} t \cdot dt = 2\int \frac{300}{t} dt = 1$$

$$n = t$$

$$= \ln^2 t + k = \ln^2 \sqrt{n} + k$$

$$\rightarrow \int \frac{1}{\sqrt{n \cdot n}} dn = 2 \int \frac{1}{t \sqrt{1 - t^2}} \cdot t dt =$$

$$= 2 \operatorname{arcsen} t + k = 2 \operatorname{arcsen} \ln + k$$

t=In n=t²; dn=2t dt

$$\int \frac{m+3}{m+2} dm = 2 \int \frac{t^2+1}{t} \cdot t dt - \int \frac{t}{m+2} dt = 2 \int t^2 dt + 2 \int dt = 2 \int t^3 + 2t + K - \int \frac{t}{m+2} dt = 2t dt$$

$$= \frac{2}{3} \sqrt{(n+2)^3} + 2\sqrt{n+2} + K = 2 \sqrt{n+2} \left[1 + \frac{1}{3}(n+2)\right] + K$$

sia t= \n+2

 $n=t^2-2$ dn=2t dt

$$\Rightarrow 3 \iint \left(\frac{n}{2}\right) dw = 6 \iint (t) dt$$

→
$$3 \int f(\frac{n}{2}) dn = 6 \int f(t) dt$$

$$dn = 2dt$$

$$dn = 2t$$

$$dn = t^2$$

$$dn = 2t dt$$

Sostituzione con formule parametriche

$$\frac{1}{1 + \text{senn}} dv = \frac{1}{1 + \text{senn}}$$

$$\frac{1}{1 + \text{senn}} dv = \frac{1}{1 + \text{senn}}$$

$$= 2 \int (t + 1)^{-2} \cdot D(t + 1) dt =$$

$$= 2 \cdot (-1) \cdot (t + 1)^{-1} + K =$$

$$= \frac{-2}{t + 1} + K = \frac{-2}{t \cdot 2} + K$$

$$\frac{1}{1 + \text{seun}} dv = \frac{1}{1 + \frac{2t}{1 + t^2}} \cdot \frac{2}{1 + t^2} dt = \frac{2}{1 + t^2} dt$$

$$slu n = \frac{2t}{1+t^2}$$

$$cos n = \frac{1-t^2}{1+t^2}$$

$$cos n = \frac{1 - t^2}{1 + t^2}$$

$$t = tou \frac{n}{2}$$

slum= $\frac{2t}{1+t^2}$; $t < \tan \frac{\pi}{2}$

$$n = \frac{2t}{1+t^2}$$
, $n = 2$ arctan t

 $dn = \frac{2}{1+t^2} dt$

$$\rightarrow \int \frac{1}{\text{sun}} dn$$

$$= 2 \int \frac{1}{1+t^2} dt = 2 \ln |t| + k$$

$$= 2 \int \frac{1}{t} dt = 2 \ln |t| + k$$

Sostituzione con funzioni irrazionali

Jo2-n² dn

Lo y = Jo2-n² semi circonferenta

-> per gli integrali definiti si usa questo,

uon la formula