17/03/21 INTEGRAZIONE IMMEDIATA P1878

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$$\int \frac{1}{x} dx = \ln|x| + K$$

$$\int \frac{1}{x} dx = \ln|x| + K \implies \text{outstand} i \in E \text{ soup } x \neq 0$$

$$\int e^{x} dx = e^{x} + K$$
 $\int e^{x} dx = \int e^{x} dx$ $\int e^{x} dx = e^{x} + K$

$$\int a^{x} dx = \frac{1}{\ln a} a^{x} + K$$

$$Da^{x} = a^{x} \ln a \qquad \int Da^{x} dx = \int a^{x} \ln a dx$$

$$a^{x} + K = \ln a \int a^{x} dx$$

$$\int \frac{1}{\sqrt{1-x^2}} dx = OHCNEUX + K$$

$$DOYCLEUX = \int \frac{1}{\sqrt{1-x^2}}$$

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$$= e^{2} \int e^{x} dx = e^{2} e^{x} + K = e^{x+2} + K$$

$$\int 2^{4x} \cdot 4^{1-2x} dx = \int 2^{4x} \cdot 2^{2-4x} dx = 4 \int 1 dx = 4x + K$$

$$\int \frac{s \sec x + 2 \sec 2x}{seu x} dx = \int \frac{seu x (s + 4 \cos x)}{seu x} dx = \int (s + 4 \cos x) dx = sx + 4 seu x + K$$

 $\# \left(\frac{1}{\cos^2 \cdot \sec^2 x} dx = \right) \frac{\sec^2 x + \cos^2 x}{\cos^2 x \sec^2 x} dx = \int \frac{1}{\cos^2 x} + \frac{1}{\sec^2 x} dx = \tan x - \cot x + K$

$$=\frac{1}{2}\times-\frac{1}{4}$$
 taux +K

$$\int \frac{\cos 2x}{4 \cos^2 x} \, dx = \frac{\cos^2 x - \sin^2 x}{4 \cos^2 x} \, dx = \frac{\cos^2 x - 1 + \cos^2 x}{4 \cos^2 x} = \frac{1}{2} - \frac{1}{\cos^2 x} = \int \frac{1}{2} - \frac{1}{4 \cos^2 x} \, dx = \frac{\cos^2 x - \sin^2 x}{4 \cos^2 x} \, dx = \frac{1}{2} - \frac{1}{4 \cos^2 x} + \frac{1}{4 \cos^2 x}$$

 $\int tou^2 x \, dx = \int \frac{seu^3 x}{cos^2 x} \, dx = \frac{1 - cos^2 x}{cos^2 x} = \int \frac{1}{cos^2 x} - 1 \, dx = tou x - x + K$