03.01

Integrazione per parti: ex. 526/531 pag. 123 ex. 312/314 pag. 112 Integrazione per sostituzione: ex. 484 509 pag. 123 Integrali composti: ex.488 pag. 122 ex. 505/518/538 pag. 123/124 f(x)=x g(cx)=e1-2x P.112 55.312 $\int xe^{1-2x}\,dx$ $-\frac{1}{4}(2x+1)e^{1-2x}+c$ $\int f(x)g'(x)dx = f(x)g(x) - \int f'(x)g(x)dx + c$ PER PAG = \f(x) \cdot 8'(x) = \f(x) \cdot 01-2x g(X)= Se1-2X olx YA= 1-2x > A-1 =-ex dt= -21× x= A - 1/2 = 2.1 Set dt $= e^{A} + C = e^{1-2x} + C -> 8$ $-\frac{1}{4}(2x+1)e^{1-2x}+c$ 4 (X) = X $\int \underline{f(x)g'(x)dx} = f(x)g(x) - \int f'(x)g(x)dx + c$ f(CX) - 1 $\int xe^{1-2x}dx = \frac{x}{2}e^{\frac{1-2x}{3}} - \sqrt{e^{\frac{1}{2}1-2x}}$

P.112 65, 344

$$\begin{cases}
c \times g = e^{4x} \\
e^{4x} \left(\frac{x}{4} - \frac{1}{16}\right) + c
\end{cases}$$
INTEGRAPACE

$$\Rightarrow \left[\int \frac{f(x)g'(x)dx}{f(x)} = f(x)g(x) - \int f'(x)g(x)dx + c
\right]$$
PER PART

$$\begin{cases}
x \in \mathbb{R}^{4x} dx \\
y \in \mathbb{R}^{4x} dx
\end{cases}$$

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\end{cases}$$

P. 122 65.

488

$$A = 4x^{2} + 1 \Rightarrow x = 4x^{2}$$

$$dx = 4 = 42x^{2-1} + 0$$

$$dx = 3$$

$$\int \frac{x}{4x^2 t^n} dx \rightarrow = \sqrt{2} \int \frac{1}{4} dt = \sqrt{2} \ln(4t)$$

$$= \sqrt{2} \ln(4t) = \sqrt{2} \ln(4t)$$

$$= \sqrt{2} \ln(4t) = 0$$

65.503 P.123

$$k^{2}+4=5$$

$$k^{2}+4=5$$

$$k=\frac{1}{2} = \frac{2k}{2k} = \frac{1}{2k} = \frac{1}{2} = \frac{1}{$$

$$\int x(x+3)^{10} dx$$

$$\int x(x+3)^{10} dx \qquad \left[\frac{1}{12} (x+3)^{12} - \frac{3}{11} (x+3)^{11} + c \right]$$

65.518 P. 123

$$\int e^{\sin t} \cos t \, dt$$

$$[e^{\sin t} + c]$$

$$\int xe^{3x}\,dx$$

$$\left[\frac{1}{9}(3x-1)e^{3x}+c\right]$$