## TUTORATO DEL 9/12/2022

(i) 
$$\int 8\sqrt{x} dx$$
 (ii)  $\int \frac{3-x^2}{x^4} dx$ 

(iii) 
$$\int e^{x} (1-2xe^{-x})dx$$
 (iv)  $\int \frac{\sin x}{3} - 5\cos x dx$ 

(v) 
$$\int tg^2 x dx$$
 (vi)  $\int cos^2 x sin x dx$ 

$$(Vii) \int \frac{\log^3 x}{x} dx \qquad (Viii) \int \frac{\chi^2}{\chi^3 + 2} dx$$

(ix) 
$$\int x \cos(x^2) dx$$
 (x)  $\int \frac{1+e^{\sqrt{x}}}{\sqrt{x}} dx$ 

(Xi) 
$$\int \frac{2 \operatorname{arctg} x + 1}{x^2 + 1} dx \quad (Xii) \int (x + 2) \operatorname{sin} x dx$$

(Xiii) 
$$\int arctex dx$$
 (XiV)  $\int \frac{\mathcal{X}}{1+x^2} dx$ 

$$(xv) \int \frac{\chi}{1+\chi^4} d\chi \qquad (xvi) \int \frac{\chi_4 + \chi^3 + 6}{\chi^2 + \chi} d\chi$$

$$(XVii) \int \frac{x^2 - x + 1}{x^2 - 2x + 1} dx \qquad (XViii) \int \frac{1}{9x^2 + 5 - 6x} dz$$

$$(XiX)\int \frac{\chi^2 - 3\chi}{\chi^2 - 6\chi + 8} d\chi \quad (\chi\chi)\int \frac{2\chi + 3}{\chi^3 + 3\chi^2 - 4} d\chi$$

(i) 
$$\int_{0}^{1} x^{3} (x^{4}+1)^{5} dx$$

(ii) 
$$\int_0^1 \frac{x^2}{x^3+1} dx$$

(iii) 
$$\int_{0}^{1} \frac{e^{2x}}{e^{2x}+1} dx$$

$$(V) \int_{1}^{3} 3x^{2} \log x \, dx$$