Calcule as sequintes integrals

1-)
$$f = \int_{-\infty}^{\infty} dx$$

$$I = \begin{bmatrix} x^{3+1} \\ \hline 3+1 \end{bmatrix} = D \quad T = 1 \quad x^4 + C$$

$$2-) J = \int \frac{1}{x^2} dx$$

$$\overline{J} = \left(\begin{array}{ccc} \overline{x}^2 dx & -D & \overline{J} = \left(\begin{array}{ccc} \overline{x}^2 & -D & \overline{J} = -1 & +C \\ \hline -2+1 & & -1 & -D & -1 \end{array} \right) = D$$

$$J = 2 \left(\frac{x^{1/2}}{2} dx - 0 \right) = 2 \left(\frac{3}{2} dx - 0 \right) = 2 \left(\frac{5}{2} \right)$$

$$I = \frac{4\sqrt{x^5}}{5} - 0$$
 $I = \frac{4\sqrt{x^2x^2}x^2}{5} - 0$ $J = \frac{4x^2\sqrt{x^2}x^2}{5} + 0$

$$J = 3\left(x \frac{1}{3} dx - N \right) = 3\left(x \frac{1}{3} dx - N \right) = 3\left(x \frac{1}{3} dx - N \right)$$

$$T = 9 \sqrt[3]{z^{7}} - b T = 9 \sqrt[3]{x^{3}}x^{5}x - b T = 9 \sqrt[2]{x^{3}}\sqrt[3]{x^{5}}x + C$$

$$5-) I = \int \frac{2a \cos(x)}{3} dx$$

$$I = \frac{2}{3} \left(\cos(x) dx - D \right) = \frac{2}{3} a \operatorname{sev}(x) + C$$

$$\int_{S} \int_{Sen^{2}(x)} dx$$

$$J = \int \int dx$$

$$J = \int \int cosec^{2}(x) dx - D \quad J = -1 \quad cot_{2}(x) + C \int \int cosec^{2}(x) dx$$

$$\frac{1}{5 \cos^2(x)} dx$$

$$I = \frac{1}{5} \left\{ \sec^2(x) dx - b \right\} = \frac{1}{5} \frac{f_g(x) + c}{5}$$

$$\int_{\frac{\pi}{2}} \frac{3}{1+x^2} dx$$

$$J = 3 \left(\frac{1}{1 + x^2} dx - \frac{1}{x^2} \right) = 3 \operatorname{olc} f_0(x) + C \left(\frac{1}{x^2} \right)$$

$$J = \left(e^{x} + 3x - \frac{5}{x} \right) dx$$

$$J = e^{\frac{\chi}{3}} + \frac{3\chi^2 - 5\ln|\chi| + c}{2}$$

II)
$$T = (3.2^{x} - 3.5en(x)) dx$$

$$J = 3 \left[\frac{2}{2} + \cos(x) \right] + C$$

$$12-) T = \begin{cases} 2 & dx \\ \sqrt{1+x} & \sqrt{1-x} \end{cases}$$

$$T = 2 \begin{cases} \frac{1}{\sqrt{1-x^2}} & dx - 0 & T = 2 \end{cases} \begin{cases} 1 & dx \\ \sqrt{1-x^2} & dx \end{cases}$$

$$T = 2 \cos c \sec c(x) + c \int v$$

$$13-) T = \begin{cases} \frac{1}{\sqrt{1-x^2}} & dx \\ \sqrt{1-x^2} & dx \end{cases}$$

$$T = \begin{cases} \frac{1}{\sqrt{1-x^2}} & dx \\ 2 & dx \end{cases}$$

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$$T = \left(\begin{array}{c} x^2 \\ x \end{array} \right) dx - A = \left(\begin{array}{c} x^2 \\ x \end{array} \right) dx$$

$$\int \sqrt{x^6(x^2-1)} \qquad \int 2^3 \sqrt{x^2-1}$$

$$I = \int \int dx - D \quad I = \text{arcsec}(x) + C \int \int \int dx \, dx$$

15-)
$$J = \int \frac{x^5 + 2x^3 + x - 1}{x} dx$$

$$T = \begin{cases} 2^{4} + 2x^{2} + 1 - \frac{1}{x} dx - 0 & T = \frac{1}{5}x^{5} + \frac{2}{3}x^{3} + x - \ln|x| + C \end{cases}$$

$$16) T = \begin{cases} x^3 - x & dx \\ x\sqrt{x} & \end{cases}$$

$$J = \left(\frac{x(x^2 - 1)}{x(x^2 - 1)} dx - 0 \right) = \left(\frac{x^2 - 1}{x^2} dx \right)$$

$$T = \begin{pmatrix} \frac{3}{2} - \frac{-1}{2} & \frac{5}{2} & \frac{5}{2} & \frac{1}{2} \\ \frac{5}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{pmatrix}$$

$$I=\int \frac{1+f_2^2(x)}{f_2^2(x)} dx$$

$$I = \int \cot^2(x) + 1 dx \qquad -D = \int \csc^2(x) dx$$

$$\frac{\operatorname{Sen}^{2}(x) + \operatorname{cos}^{2}(x) = 1}{\operatorname{Sen}^{2}(x) \operatorname{Sen}^{2}(x)} = \frac{1}{\operatorname{Sen}^{2}(x)} = \frac{1}{\operatorname{Sen}^{2}(x)$$

(B)
$$J = \int \frac{1 + sen^2(x)}{sen^2(x)} dx$$

$$J = \left(\cos(2(x) + 1) dx - 3 \right) = -\cos(2(x) + x + C)$$

$$T=3/1+o(g^2(x)dx-5)T=3(ose^2(x)dx$$

$$J = -3 \cot g(x) + C$$

$$\frac{20-)}{\int x-x^5} dx$$

$$I = \left(\frac{X(1-\chi^2)}{X(1-\chi^2)} \frac{\partial x}{\partial x} - B \right) I = \left(\frac{1-\chi^2}{1-\chi^2} \frac{\partial x}{\partial x} \right)$$

$$I = \left(\frac{1}{1-\chi^2} \frac{\partial x}{\partial x} - B \right) I = \left(\frac{1-\chi^2}{1-\chi^2} \right) I = \left(\frac{1-\chi^2}{1-\chi^$$

$$I = \begin{cases} 1 & dx - 0 \\ 1 + x^2 \end{cases}$$

$$\frac{\sin^{2}(x) + \cos^{2}(x) = 1}{\cos^{2}(x) \cos^{2}(x)} = \frac{1}{1 - \frac{1}{3}} \frac{\sin^{2}(x) - 1}{1 - \frac{1}{3}} \frac{\sin^{$$

$$I = \sqrt{1 - x^2} dx$$

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$$I = \sqrt{1 - x^2} \sqrt{1 - x}$$

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$$T = \left(\sqrt{1 - x^2} / \sqrt{1 - x^2} \right) dx - 0 \qquad J = \left(\sqrt{1 - x^2} / \sqrt{1 - x^2} \right) dx$$

$$E = \begin{cases} 1 & dx - 0 & I = alcsen(x) + C \end{cases}$$

$$76) \ T = \left(\frac{x}{2} - \frac{2}{x} \right)^2 dx$$

$$I = \begin{cases} \frac{1}{x^2} & 2 \times 2 + \frac{4}{x^2} dx - 0 \end{cases} I = \frac{1}{4} \begin{cases} x^2 dx - 2 dx + 4 \int x^2 dx \end{cases}$$

$$I = \frac{1}{12} + \frac{3}{2} - 2x + 4 \left(\frac{x^{-1}}{x^{-1}} \right) - N \quad I = \frac{1}{12} + \frac{3}{2} - 2x - \frac{4}{2} + C$$

$$I = \begin{cases} x-1 & dx \\ \sqrt{x} + 1 \end{cases}$$

$$J = \begin{cases} (x-1)(\overline{X}-1) & dx - A & J = \\ (\overline{X}-1)(\overline{X}-1) & dx \end{cases}$$

$$I = \int x - 1 dx - n \qquad J = \left(x^2 dx - \int dx\right)$$

28-)
$$I = \begin{pmatrix} x^2 - 3 \\ x - \sqrt{3} \end{pmatrix} dx$$

$$I = \int \frac{(x^2 - 3)(x + \sqrt{3})}{(x - \sqrt{3})(x + \sqrt{3})} dx - \sqrt{1} = \int \frac{(x^2 - 3)(x + \sqrt{3})}{(x + \sqrt{3})(x + \sqrt{3})} dx$$

$$J = \int x + \sqrt{3} dx - D \qquad J = \int x^2 + \sqrt{3} x + C \qquad \checkmark$$

$$I = \int sen(x) \cdot sec(x) + \int g(x) dx$$

$$I = \int sen(x) \cdot f_{0}(x) dx + \int I = \int f_{0}^{2}(x) dx$$

$$sen^{2}(x) + \iota g_{0}^{2}(x) = \int \int \int f_{0}^{2}(x) dx$$

$$sen^{2}(x) + \iota g_{0}^{2}(x) = \int \int \int f_{0}^{2}(x) dx$$

$$I = \int f_{0}^{2}(x) + \int f_{0}^{2}(x) dx$$

35)
$$T = \begin{cases} x^{2} - x^{2} + x - 2 & dx \\ \hline x^{2} + 1 & T = \begin{cases} (x - 1)(x^{2} + 1) & 1 & dx \\ \hline x^{3} + x & x - 1 & T^{2}x(1 + x^{2} + 1) \\ -x^{2} + 0x - 2 & T = 1x^{2} - x - 21ctg(x) + C & 1 \\ -x^{2} - 1 & T = 1x^{2} - x - 21ctg(x) + C & 1 \\ \hline -1 & T - 1 & T - 1 & T - 1 & T - 1 \\ \hline 360) T = \begin{cases} x^{4} + 2x^{2} & dx \\ \hline 1 + x^{2} & x^{2} + 1 & T - 1 & dx \\ \hline x^{4} + 0x^{3} + 2x^{2} + 0x + 0 & 1x^{2} + 1 & T - 1 & dx \\ \hline x^{2} + 0x + 0 & T - 1 & T - 1 & T - 1 & T - 1 \\ \hline x^{2} + 0x + 3x^{3} + 2x - 1 & T - 1 & T - 1 & T - 1 & T - 1 \\ \hline x^{5} + 0x^{4} + 3x^{3} + 0x^{2} + 2x - 1 & 1 - 1 & T - 1 & T - 1 & T - 1 & T - 1 \\ \hline 2x^{3} + 2x & T - 2x^{2} + 1 & T$$

$$38) T = \begin{cases}
2x^{4} - 3x^{3} + 2x^{2} - 3x + 1 & x^{2} + 1 \\
2x^{4} - 3x^{3} - 2x^{2} - 3x + 1 & x^{2} + 1
\end{cases}$$

$$2x^{4} - 3x^{3} - 2x^{2} - 3x + 1 & x^{2} + 1$$

$$-3x^{3} + (x^{2} - 3x + 1)$$

$$-3x^{3} + (x^{2} - 3x + 1)$$

$$-3x^{3} - 3x$$

$$+1 \qquad T = 2x^{3} - 3x^{2} + x + 1$$

$$T = 2x^{3} - 3x^{2} + x + 1$$

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