Elecia Budi fyabila (All. 2021. 13227) Tugas Integral

O. $\int \frac{2}{3} x^3 dx$ Of $(x^2-1) \cos x dx$

- @ (x2 \3+5x2 dx
- 5 (x+2 dx
- (3) $\int \frac{\chi^2 2\chi + 1}{(\chi^3 3\chi^2 + 3\chi)^4} d\chi$ (6) $\int \frac{\chi^3 2\chi + 1}{\chi^2 + \chi 2} d\chi$

Jawab:

$$0. \left(\frac{2}{3} x^3 dx = \frac{2}{\frac{3}{3+1}} x^{(1+1)} + C \right)$$

$$=\frac{2}{12}x^{9}+C$$

$$\frac{3}{3} \cdot \left(\frac{x^2 - 2x + 1}{(x^3 - 3x^2 + 3x)^4} \right) dx = \int \frac{x^2 - 2x + 1}{(u)^4} \frac{du}{3x^2 - 6x + 3}$$

$$\frac{3}{3} \cdot \left(\frac{x^3 - 3x^2 + 3x}{3x^2 - 6x + 3} \right) dx = \int \frac{x^2 - 2x + 1}{3x^2 - 6x + 3} dx$$

$$\frac{3}{3} \cdot \left(\frac{x^2 - 2x + 1}{3x^2 - 6x + 3} \right) dx = \left(\frac{x^2 - 2x + 1}{3x^2 - 6x + 3} \right)$$

$$\frac{3}{3} \cdot \left(\frac{x^2 - 2x + 1}{3x^2 - 6x + 3} \right) dx$$

$$= \left(\frac{1}{3} \cdot \frac{1}{3x^2 - 6x + 3} \right) dx$$

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$$= \left(\frac{1}{3} \cdot \frac{1}{3x^2 - 6$$

 $\begin{array}{lll}
(A) & \int (x^2-1) \cos x & dx = \int x^2 (\cos(x) - \cos(x)) dx \\
&= \int x^2 (\cos(x) dx - \int (\alpha(x)) dx \\
&= x^2 \sin(x) + 2x (\cos(x) - 3 \sin(x) - \sin(x)) \\
&= x^2 \sin(x) + 2x \cos(x) - 3 \sin(x)
\end{array}$