

Rizky Firmansyah

XII RPL 1

Integral

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No. _____
Date: _____

1. $\int x^6 - 2x^3 + 7x - 2 dx$

$$= \frac{1}{6+1} x^{6+1} - \frac{2}{3+1} x^{3+1} + \frac{7}{1+1} x^{1+1} - 2x + C$$
$$= \frac{1}{7} x^7 - \frac{2}{4} x^4 + \frac{7}{2} x^2 - 2x + C$$
$$= \frac{1}{7} x^7 - \frac{1}{2} x^4 + \frac{7}{2} x^2 - 2x + C$$

2. $\int 2x^4 - 7x^3 + 8x - 4 dx$

$$= \frac{2}{4+1} x^{4+1} - \frac{7}{3+1} x^{3+1} + \frac{8}{1+1} x^{1+1} - 4x + C$$
$$= \frac{2}{5} x^5 - \frac{7}{4} x^4 + \frac{8}{2} x^2 - 4x + C$$
$$= \frac{2}{5} x^5 - \frac{7}{4} x^4 + \frac{4}{1} x^2 - 4x + C$$

3. $\int 5x^6 + 4x^3 - 2x + 8 dx$

$$= \frac{5}{6+1} x^{6+1} + \frac{4}{3+1} x^{3+1} - \frac{2}{1+1} x^{1+1} + 8x + C$$
$$= \frac{5}{7} x^7 + \frac{4}{4} x^4 - \frac{2}{2} x^2 + 8x + C$$
$$= \frac{5}{7} x^7 + \frac{1}{1} x^4 - \frac{1}{1} x^2 + 8x + C$$