LKPD INTEGRAL TAK TENTU

NAMA :

KELAS :

1) $\int 7x^6\,dx = \frac{7}{\square+1}x^{\square+1} + C = \frac{7}{\square}x^{\square} + C = x^{\square} + C$

2) $\int (6x^2 + 2x + 4)\,dx = \frac{6}{2+\square}x^{2+\square} + \frac{2}{1+\square}x^{1+\square} + \square x + C$

$= \frac{6}{\square}x^{\square} + \frac{2}{\square}x^2 + \square x + C = \square x^{\square} + x^{\square} + \square x + C$

3) $\int \sqrt[6]{x^5}\,dx = \int x^{\frac{\square}{6}}\,dx = \frac{1}{\frac{5}{6}+\square}x^{\frac{5}{6}+\square} + C = \frac{1}{\frac{\square\square}{6}}x^{\frac{\square\square}{6}} + C$

$= \frac{\square}{11}x^{\frac{\square\square}{6}} + C$

4) $\int \frac{1}{\sqrt[8]{x^2}}\,dx = \int \frac{1}{x^{\frac{2}{\square}}}\,dx = \int x^{-\frac{2}{\square}}\,dx = \int x^{-\frac{1}{\square}}\,dx = \frac{1}{-\frac{1}{\square}+\square}x^{-\frac{1}{\square}+\square} + C$

$= \frac{1}{3}x^{\frac{3}{\square}} + C = \frac{\square}{3}x^{\frac{3}{\square}} + C$

5) $\int (x\sqrt{x} + 2x)\,dx = \int (x^1.x^{\frac{\square}{2}} + 2x)\,dx = \int (x^{\frac{\square}{2}} + 2x)\,dx$

$= \frac{1}{\frac{\square}{2}+\square}x^{\frac{\square}{2}+1} + \frac{2}{1+\square}x^{1+\square} + C = \frac{1}{\frac{\square}{2}}x^{\frac{\square}{2}} + \frac{\square}{2}x^2 + C$

$= \frac{\square}{5}x^{\frac{\square}{2}} + x^2 + C$

LIVEWORKSHEETS