

LKPD INTEGRAL TAK TENTU

NAMA :

KELAS :

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

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

$$3) \int \sqrt[6]{x^5} dx = \int x^{\frac{5}{6}} dx = \frac{1}{\frac{5}{6}+\square} x^{\frac{5}{6}+\square} + C = \frac{1}{\frac{\square}{6}} x^{\frac{\square}{6}} + C$$
$$= \frac{\square}{11} x^{\frac{\square}{6}} + C$$

$$4) \int \frac{1}{\sqrt[8]{x^2}} dx = \int \frac{1}{x^{\frac{2}{8}}} dx = \int x^{-\frac{2}{8}} dx = \int x^{-\frac{1}{4}} dx = \frac{1}{-\frac{1}{4}+\square} x^{-\frac{1}{4}+\square} + C$$
$$= \frac{1}{\frac{3}{4}} x^{\frac{3}{4}} + C = \frac{\square}{3} x^{\frac{3}{4}} + C$$

$$5) \int (x\sqrt{x} + 2x) dx = \int (x^1 \cdot x^{\frac{1}{2}} + 2x) dx = \int (x^{\frac{3}{2}} + 2x) dx$$
$$= \frac{1}{\frac{3}{2}+\square} x^{\frac{3}{2}+\square} + \frac{2}{1+\square} x^{1+\square} + C = \frac{1}{\frac{\square}{2}} x^{\frac{\square}{2}} + \frac{\square}{2} x^2 + C$$
$$= \frac{\square}{5} x^{\frac{\square}{2}} + x^2 + C$$