

LKPD 2
INTEGRAL
FUNGSI TRIGONOMETRI

Nama : _____

Kelas : _____

$$\int 2x^2 \cdot \sin 6x^3 dx = \dots$$

- a. $\frac{1}{18} \cos 6x^3 + C$ d. $-\frac{1}{9} \cos 6x^3 + C$
b. $\frac{1}{9} \cos 6x^3 + C$ e. $-\frac{1}{18} \cos 6x^3 + C$
c. $-\frac{1}{2} \cos 6x^3 + C$

$$\int 3x \cdot \sin (6x^2 - 1) dx = \dots$$

- a. $-\frac{1}{3} \cos (6x^2 - 1) + C$ d. $\frac{1}{3} \cos^5 5x + C$
b. $-\frac{1}{4} \cos (6x^2 - 1) + C$ e. $\frac{1}{6} \cos^5 5x + C$
c. $\frac{1}{4} \cos (6x^2 - 1) + C$

$$\int (6x - 1) \cdot \cos (9x^2 - 3x) dx = \dots$$

- a. $\frac{1}{3} \sin (9x^2 - 3x) + C$ d. $-\frac{1}{3} \sin (9x^2 - 3x) + C$
b. $\frac{1}{6} \sin (9x^2 - 3x) + C$ e. $-\frac{1}{9} \sin (9x^2 - 3x) + C$
c. $-\frac{1}{6} \sin (9x^2 - 3x) + C$

$$\int \sin^2 x \cdot \cos x dx = \dots$$

- a. $-\frac{2}{3} \sin^3 x + C$ d. $\frac{1}{3} \cos^3 x \sin^3 x + C$
b. $-\frac{1}{3} \sin^3 x + C$ e. $\frac{1}{3} \sin^3 x \cos^2 x + C$
c. $\frac{1}{3} \sin^3 x + C$

$$\int \cos^4 5x \cdot \sin 5x dx = \dots$$

- a. $\frac{1}{25} \cos^5 5x + C$ d. $-\frac{1}{5} \cos^5 5x + C$
b. $\frac{1}{5} \cos^5 5x + C$ e. $-\frac{1}{25} \cos^5 5x + C$
c. $5 \cos^5 5x + C$