LKPD 2
INTEGRAL
FUNGSI TRIGONOMETRI

Nama : _____

Kelas : _____

$$\int 2x^2 \,.\sin 6x^3 \, dx = \cdots$$

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

$$\int 3x \,.\sin (6x^2 - 1) \; dx = \cdots$$

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

$$\int (6x - 1) \,.\cos (9x^2 - 3x) \; dx = \cdots$$

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

$$\int sin^2 x \,.\cos x \; dx = \cdots$$

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

$$\int \cos^4 5x \,.\sin 5x \; dx = \cdots$$

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

LIVEWORKSHEETS