

## เฉลยแบบฝึกหัด 11.5

---

จงหาค่าการอินทิเกรตต่อไปนี้

1.  $\frac{1}{16}e^x - \frac{1}{48}\sin^3(2e^x) - \frac{1}{64}(\sin 4e^x) + C$

2.  $\frac{-\cos 10x}{20} - \frac{\cos(2x)}{4} + C$

3.  $\frac{\sin^3 x}{3} - \frac{\sin^5 x}{5} + C$

4.  $\frac{\sin^4 x}{4} - \frac{\sin^6 x}{6} + C$

5.  $-2 \cos x + 3 \sin x + C$

6.  $\tan x + C$

7.  $\frac{\sec^3 x}{3} + C$

8.  $\sin(5 + e^x) - \frac{2}{3}\sin^3(5 + e^x) + \frac{\sin^5(5 + e^x)}{5} + C$

9.  $x + \operatorname{cosec} x + C$

15.  $-\frac{\cos 4e^{2x}}{16} - \frac{\cos 2e^{2x}}{8} + C$

10.  $\frac{x^3}{3} + \cos x + C$

16.  $\frac{x}{4} - \frac{\sin(4x)}{16} + C$

11.  $-2 \cos x - 5e^x + C$

17.  $\sec x - 2 \tan x + C$

12.  $\frac{x^3}{3} + \tan x + C$

18.  $\sec x + C$

13.  $\tan x + \cos x + C$

19.  $4 \ln x + \tan x + C$

14.  $\sin x + \frac{3^x}{\ln 3} + C$

20.  $\sec x + C$