

1. $\int (12x^2 + 24x + 3) dx$

integralinin eşiti nedir?

- A) $4x^3 - 12x^2 + 3x + c$
 B) $x^3 + x^2 + 3$
 C) $4x^3 + 12x^2 + 3x + c$
 D) $4x^3 + 12x^2 - 3x + c$
 E) $x^3 + 12x^2 + 6x + c$

2. $\int e^{2x-4} dx$

ifadesinin eşiti aşağıdakilerden hangisine eşittir?

- A) $e^{2x-4} + c$
 B) $-\frac{1}{2}e^{2x-4} + c$
 C) e^{x^2-4x+c}
 D) $\frac{1}{2}e^{2x-4} + c$
 E) e^{x^2-4x}

3. $\int (e^x + \sin x + 1) dx$

integralinin sonucu nedir?

- A) $e^x + \cos x + c$
 B) $e^x - \cos x + x + c$
 C) $e^x \cdot \cos x + c$
 D) $\frac{e^x}{2} + \sin x + c$
 E) $e^{2x} + \cos x + c$

4. $\int \sin(2x+3) dx$

integralinin sonucu nedir?

- A) $\cos(2x+3) + c$
 B) $2\cos(2x+3) + c$
 C) $-\frac{\sin(2x+3)}{2} + c$
 D) $-\frac{\cos(2x+3)}{2} + c$
 E) $\tan(2x+3) + c$

5. $\int 3 \cdot \sin(2-3x) dx$

integrali aşağıdakilerden hangisine eşittir?

- A) $-\cos(2-3x) + c$
 B) $-\cos(3x-2) + c$
 C) $-\sin(3x-2) + c$
 D) $\cos(3x-2) + c$
 E) $-\cos(2+3x) + c$

6. $\int (2x+2)^3 dx$

ifadesinin integrali aşağıdakilerden hangisine eşittir?

- A) $2 \cdot (2x+2)^4 + c$
 B) $-\frac{1}{8} \cdot (2x+2)^4 + c$
 C) $\frac{1}{4} \cdot (x+1)^4 + c$
 D) $\frac{1}{8} \cdot (x+1)^4 + c$
 E) $2 \cdot (x+1)^4 + c$

7. $\int (x+2) \cdot e^{x^2+4x+5} dx$

integrali aşağıdakilerden hangisine eşittir?

- A) $e^{x^2+4x+5} + c$
 B) $\frac{1}{2} \cdot e^{x^2+4x+5} + c$
 C) $-e^{x^2+4x+5} + c$
 D) $-\frac{1}{2} e^{x^2+4x+5} + c$
 E) $e^{2x+4} + c$

8. $\int e^{\sin x} \cdot \cos x dx$

integralinin eşiti nedir?

- A) $e^{\cos x} + c$
 B) $-e^{\cos x} + c$
 C) $e^{\sin x} + c$
 D) $-e^{\sin x} + c$
 E) $e^{\sin x} + \sin x + c$

9. $\int \sin^2 x \cdot \cos x \cdot dx$ integralinin eşiti nedir?

- A) $\sin x + c$
 B) $\frac{\sin^2 x}{2} + c$
 C) $\frac{\sin^2 x}{3} + c$
 D) $\frac{\sin^3 x}{3} + c$
 E) $\sin 2x + c$

10. $\int \frac{\tan x}{\cos^2 x} dx$ integralinin sonucu kaçtır?

- A) $\tan x + c$ B) $\frac{\cos x}{3} + c$
 C) $\frac{\tan^2 x}{2} + c$ D) $\sin^2 x + \cos^3 x + c$
 E) $(1 + \tan^2 x) \cdot x + c$

11. $\int \sin x \cdot \cos x dx$

integralinin eşiti nedir?

- A) $-\frac{1}{2}\cos 2x + c$ B) $-\frac{1}{4}\cos 2x + c$
 C) $\frac{1}{4}\cos 2x + c$ D) $\frac{1}{2}\cos 2x + c$
 E) $-\cos 2x + c$

12. $\int (\tan x + \sin x) dx$

integralinin eşiti nedir?

- A) $\ln|-\cos x| - \cos x + c$ B) $\ln|\cos x| + \cos x + c$
 C) $-\ln|\cos x| + \cos x + c$ D) $-\ln|\cos x| - \cos x + c$
 E) $\ln|\cos x - \sin x| + c$

13. $\int \frac{\text{Arc tan } x}{(1+x^2)} dx$ integralinin sonucu nedir?

- A) $\text{Arc tan } x + \ln|1+x^2| + c$ B) $\text{Arc tan } x + x^2 + c$
 C) $\frac{(\text{Arc tan } x)^2}{2} + c$ D) $\frac{\text{Arc cot } x}{3} + c$
 E) $\frac{\text{Arc cot } x}{2} + x^2 + c$

14. $\int \frac{dx}{x^2 + 2x + 2}$ integralinin eşiti nedir?

- A) $\text{Arc tan}(x^2 + 2x + 2) + c$ B) $\text{Arc tan}(x + 1) + c$
 C) $\text{Arc tan } x + c$ D) $\ln|x + 1| + c$
 E) $\ln|x^2 + 2x + 2| + c$

15. $\int x \cdot e^x \cdot dx$

integralinin eşiti nedir?

- A) $e^x(x-1) + c$ B) $e^x \cdot x + x + c$
 C) $e^{2x} \cdot x + c$ D) $e^{-x} \cdot x - e^x + c$
 E) $e^x + c$

16. $f(x) = \int d(\sin x + \cos x)$ ve $f\left(\frac{\pi}{3}\right) = \frac{3+\sqrt{3}}{2}$

olduğuna göre, $f\left(\frac{\pi}{6}\right)$ kaçtır?

- A) $\frac{1+\sqrt{3}}{2}$ B) $\frac{2+\sqrt{3}}{2}$ C) $\frac{3+\sqrt{3}}{2}$
 D) $\frac{4+\sqrt{3}}{2}$ E) $\frac{3-\sqrt{3}}{2}$

17. $\int \frac{x+3}{x^2+3x+2} dx$

integrali aşağıdakilerden hangisine eşittir?

- A) $\ln\left|\frac{x+1}{x+2}\right| + c$ B) $\ln\left|\frac{(x+1)^2}{x+2}\right| + c$
 C) $2 \cdot \ln\left|\frac{x+1}{x+2}\right| + c$ D) $\ln\left|\frac{(x+2)^2}{x+1}\right| + c$
 E) $\ln\left|\frac{x+2}{x+1}\right| + c$

18. $\int \frac{x^3 + 3x^2 + 2x + 1}{x+1} dx$

integralinin eşiti nedir?

- A) $\frac{x^3}{3} + x^2 + \ln|x+1| + c$
 B) $\frac{x^3}{3} + \frac{x^2}{2} + 2x + \ln|x+1| + c$
 C) $\frac{x^3}{3} + \frac{x^2}{2} + \ln|x+1| + c$
 D) $\frac{x^3}{3} + \frac{x^2}{2} - \ln|x+2| + c$
 E) $\frac{x^3}{3} - \frac{x^2}{2} + \ln|x+2| + c$

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