

1. $\int e^{x^4} 4x^3 dx$

integralinin eşiti nedir?

- A) $4 \cdot e^{x^4} + c$ B) $e^{x^4} + c$ C) $3e^{x^4} + c$
 D) $\frac{1}{4} \cdot e^{x^4} + c$ E) $\frac{1}{e^{x^4}} + c$

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

integralinin eşiti nedir?

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

3. $\int e^{\sin^2 x} \cdot \sin 2x dx$

integralinin eşiti nedir?

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

4. $\int \left(\frac{e^x - e^{-x}}{e^x + e^{-x}} \right) dx$

integralinin eşiti nedir?

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

5. $\int (\tan^5 x \cdot \sec^2 x) dx$

integralinin eşiti nedir?

- A) $\tan x + c$ B) $\frac{\tan^4 x}{4} + c$ C) $\frac{\tan^5 x}{5} + c$
 D) $\frac{\tan^6 x}{6} + c$ E) $\frac{\tan^{-6} x}{6} + c$

6. $\int \frac{e^{\sqrt{x+3}}}{\sqrt{x+3}} dx$

integralinin eşiti nedir?

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

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

integralinin eşiti nedir?

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

8. $\int (\cos^3 x \cdot \sin^2 x) dx$

integralinin eşiti nedir?

- A) $\frac{\sin^3 x}{3} - \frac{\sin^5 x}{5} + c$ B) $\sin^3 x - \sin^5 x + c$
 C) $\frac{\cos^3 x}{3} - \frac{\cos^5 x}{5} + c$ D) $\cos^3 x \cdot \sin^2 x + c$
 E) $\sin^3 x \cdot \cos^2 x + c$

9. $\int \frac{1}{8x+3} dx$

integralinin eşiti nedir?

- A) $\ln|8x+3| + c$ B) $8 \cdot \ln|8x+3| + c$
 C) $\ln|8x-3| + c$ D) $\frac{1}{8} \ln|8x+3| + c$
 E) $\frac{1}{8} \cdot \ln|8x-3| + c$

$$10. \int \frac{e^x}{1+e^{2x}} dx$$

integralinin eşiti nedir?

- A) $\tan e^x + c$ B) $\cot e^x + c$
 C) $\arcsin e^x + c$ D) $\arccos e^x + c$
 E) $\arctan e^x + c$

$$11. \int \left(\frac{3^x}{2+3^x} \right) dx$$

integralinin eşiti nedir?

- A) $\frac{\ln(2+3^x)}{\ln 3} + c$ B) $\ln \left(\frac{2+3^x}{3} \right) + c$
 C) $\ln \left(\frac{3}{2^x+3} \right) + c$ D) $\ln \left(\frac{3}{3^x+2} \right) + c$
 E) $\ln(3^x+2) + c$

$$12. \int \left(\frac{\sqrt{2x+1} + \sqrt[3]{2x+1}}{\sqrt[6]{2x+1}} \right) dx$$

integralinin eşiti nedir?

- A) $(2x+1)^{\frac{4}{3}} + (2x+1)^{\frac{7}{6}} + c$
 B) $(2x+1)^{\frac{3}{4}} + (2x+1)^{\frac{6}{7}} + c$
 C) $\frac{3}{8} \cdot (2x+1)^{\frac{4}{3}} + \frac{3}{7} \cdot (2x+1)^{\frac{7}{6}} + c$
 D) $\frac{3}{8} \cdot (2x+1)^{\frac{3}{4}} + \frac{7}{3} \cdot (2x+1)^{\frac{7}{6}} + c$
 E) $\frac{4}{3} (2x+1)^{\frac{3}{4}} + \frac{6}{7} \cdot (2x+1)^{\frac{7}{6}} + c$

$$13. \int (\cos 3x \cdot \cos 7x) dx$$

integralinin eşiti nedir?

- A) $\sin 4x + \sin 10x + c$
 B) $\frac{1}{4} \cdot \sin 4x + \frac{1}{10} \cdot \cos 10x + c$
 C) $\frac{1}{4} \cdot \sin 4x + \frac{1}{10} \cdot \sin 10x + c$
 D) $\frac{1}{8} \cdot \sin 4x + \frac{1}{20} \cdot \sin 10x + c$
 E) $\frac{1}{16} \cdot \sin 4x + \frac{1}{40} \cdot \sin 10x + c$

$$14. \int \frac{\arccos x}{\sqrt{1-x^2}} dx$$

integralinin eşiti nedir?

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

$$15. \int \frac{f'(x)}{f(x)} dx$$

integralinin eşiti nedir?

- A) $f(x) + c$ B) $f'(x) + c$ C) $\frac{f^2(x)}{2} + c$
 D) $\frac{f'(x)}{2}$ E) $\ln|f(x)| + c$

$$16. \int \frac{1}{x \cdot \cos^2(1+\ln x)} dx$$

integralinin sonucu nedir?

- A) $\tan(1+\ln x) + c$ B) $\cot(1+\ln x) + c$
 C) $\sin(1+\ln x) + c$ D) $\cos(1+\ln x) + c$
 E) $\sec^2(1+\ln x) + c$

$$17. \int \frac{dx}{4+9x^2}$$

integralinin eşiti nedir?

- A) $\arctan \frac{3x}{2} + c$ B) $\frac{1}{3} \cdot \arctan \frac{3x}{2} + c$
 C) $\frac{1}{6} \cdot \arctan \left(\frac{3x}{2} \right) + c$ D) $\frac{2}{3} \cdot \arctan \left(\frac{3x}{2} \right) + c$
 E) $\frac{1}{6} \cdot \operatorname{arccot} \left(\frac{3x}{2} \right) + c$

$$18. \int \frac{dx}{x^2+6x+10}$$

integralinin eşiti nedir?

- A) $\arctan(6x) + c$ B) $\arctan(x+3) + c$
 C) $\arctan(3x) + c$ D) $\operatorname{arccot}(x+3) + c$
 E) $\arcsin(x+3) + c$

GEBÖS YAYINLARI

GEBÖS YAYINLARI