

14) QID: 29321

Evaluate $\int \ln(x)x^2 dx$.

- $\frac{1}{3}\ln(x)x^3 - \frac{1}{9}x^3 + C$
- $\frac{1}{3}\ln(x)x^3 + \frac{1}{9}x^3 + C$
- $\frac{1}{3}\ln(x)x^3 + \frac{1}{3}x^3 + C$
- $\frac{1}{3}\ln(x)x^3 - \frac{1}{3}x^3 + C$

15) QID: 29227

Evaluate the integral $\int 4 \frac{1}{(4-x^2)^{3/2}} dx$.

- $-\frac{x}{\sqrt{4-x^2}} + C$
- $\frac{x}{\sqrt{4-x^2}} + C$
- $\frac{1}{\sqrt{4-x^2}} + C$
- $-\frac{1}{\sqrt{4-x^2}} + C$

16) QID: 29239

Evaluate the integral $\int 3 \frac{x}{\sqrt{4-x^2}} dx$.

- $-3\sqrt{4-x^2} + C$
- $3\sqrt{4-x^2} + C$
- $-6\sqrt{4-x^2} + C$
- $6\sqrt{4-x^2} + C$

17) QID: 29259

Evaluate $\int_{-2}^3 \frac{x}{(4+x^2)^{3/2}} dx$.

- $\frac{1}{13}\sqrt{13} + \frac{1}{4}\sqrt{2}$
- $-\frac{1}{13}\sqrt{13} - \frac{1}{4}\sqrt{2}$
- $\frac{1}{13}\sqrt{13} - \frac{1}{4}\sqrt{2}$
- $-\frac{1}{13}\sqrt{13} + \frac{1}{4}\sqrt{2}$

18) QID: 26146

Approximate the integral $\int_1^4 \frac{3}{x} dx$ using the trapezoidal rule with $N = 4$.

- 5.435
- 2.845
- 8.569
- 4.284

19) QID: 26168

Approximate the integral $\int_1^7 \frac{1}{5x} dx$ using the trapezoidal rule with $N = 3$.

- 0.442
- 0.332
- 0.884
- 0.554

20) QID: 29257

Evaluate $\int_7^{13} \frac{1}{x^2 \sqrt{x^2 - 9}} dx$.

- $\frac{2}{9} \cos \theta$
- $\frac{2}{9} \cdot \frac{\sqrt{x^2 - 9}}{x}$
- $\frac{4}{819} \sqrt{10}$
- $-\frac{2}{9} \cdot \frac{\sqrt{x^2 - 9}}{x}$

SAMPLE