1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

$$2: \frac{d}{dx} \left(\ln x^2 \right)$$

- $1: \frac{d}{dx} \left(\frac{e^x}{x} \right)$
- 2: $\frac{d}{dx} \left(\ln x^2 \right)$ 3: $\frac{d}{dx} \left(\ln e^x \right)$

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1:
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2:
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$$5: \int \frac{3x^2 + 1}{x^3 + x + 2} \, dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

3:
$$\frac{d}{dx} \left(\ln e^x \right)$$

1:
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5:
$$\int \frac{3x^2 + 1}{x^3 + x + 2} dx$$
 6: $\int \frac{\ln x}{x} dx$

6:
$$\int \frac{\ln x}{x} dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

3:
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5:
$$\int \frac{3x^2 + 1}{x^3 + x + 2} dx$$
 6: $\int \frac{\ln x}{x} dx$ 7: $\int e^{100x} dx$

6:
$$\int \frac{\ln x}{x} dx$$

7:
$$\int e^{100x} dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
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7:
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8:
$$\int e^x \cos(e^x) dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
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8:
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9:
$$\frac{d}{dx}\left(x^x\right)$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

$$3: \frac{d}{dx} \left(\ln e^x \right)$$

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$$\int e^x \cos(e^x) dx$$

9:
$$\frac{d}{dx}\left(x^x\right)$$

9:
$$\frac{d}{dx}\left(x^x\right)$$
 10: $\frac{d}{dx}\left(2^x\right)$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

$$3: \frac{d}{dx} \left(\ln e^x \right)$$

1:
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9:
$$\frac{d}{dx}\left(x^x\right)$$

10:
$$\frac{d}{dx}(2^x)$$

9:
$$\frac{d}{dx}\left(x^x\right)$$
 10: $\frac{d}{dx}\left(2^x\right)$ 11: $\frac{d}{dx}\left((\ln x)^2\right)$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
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$$3: \frac{d}{dx} \left(\ln e^x \right)$$

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9:
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10:
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9:
$$\frac{d}{dx}\left(x^x\right)$$
 10: $\frac{d}{dx}\left(2^x\right)$ 11: $\frac{d}{dx}\left((\ln x)^2\right)$ 12: $\frac{d}{dx}\left(2^{x^2}\right)$

$$12: \quad \frac{d}{dx} \left(2^{x^2} \right)$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

3:
$$\frac{d}{dx} \left(\ln e^x \right)$$

1:
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$$\frac{d}{dx}\left(x^x\right)$$

10:
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 10: $\frac{d}{dx}\left(2^x\right)$ 11: $\frac{d}{dx}\left((\ln x)^2\right)$ 12: $\frac{d}{dx}\left(2^{x^2}\right)$

$$12: \ \frac{d}{dx} \left(2^{x^2} \right)$$

13:
$$\int \frac{1+2x}{1+x+x^2} \, dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

$$3: \frac{d}{dx} \left(\ln e^x \right)$$

1:
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$$\mathbf{6} \colon \int \frac{\ln x}{x} \, dx$$

7:
$$\int e^{100x} dx$$

8:
$$\int e^x \cos(e^x) dx$$

9:
$$\frac{d}{dx}\left(x^x\right)$$

$$10: \ \frac{d}{dx}\bigg(2^x\bigg)$$

9:
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 10: $\frac{d}{dx}\left(2^x\right)$ 11: $\frac{d}{dx}\left((\ln x)^2\right)$ 12: $\frac{d}{dx}\left(2^{x^2}\right)$

$$12: \quad \frac{d}{dx} \left(2^{x^2} \right)$$

13:
$$\int \frac{1+2x}{1+x+x^2} dx$$
 14: $\int \left(1+\frac{1}{x}\right) dx$

14:
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1:
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$$12: \quad \frac{d}{dx} \left(2^{x^2} \right)$$

13:
$$\int \frac{1+2x}{1+x+x^2} dx$$
 14: $\int \left(1+\frac{1}{x}\right) dx$ **15**: $\int \frac{1}{x+1} dx$

14:
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$$15: \int \frac{1}{x+1} \, dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

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14:
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$$15: \int \frac{1}{x+1} \, dx$$

$$16: \int e^{\sin x} \cos x \, dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

$$3: \frac{d}{dx} \left(\ln e^x \right)$$

1:
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 17: $\frac{d}{dx} \left(e^{x^2} \right)$ **18**: $\int 3x^2 e^{x^3} \, dx$

17:
$$\frac{d}{dx}\left(e^{x^2}\right)$$

18:
$$\int 3x^2 e^{x^3} dx$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
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$$\frac{d}{dx}\left(e^{x^2}\right)$$

18:
$$\int 3x^2 e^{x^3} dx$$

19:
$$\frac{d}{dx} \left(\frac{x}{e^x} \right)$$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

$$3: \frac{d}{dx} \left(\ln e^x \right)$$

1:
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$$\frac{d}{dx}\left(e^{x^2}\right)$$

18:
$$\int 3x^2 e^{x^3} dx$$

19:
$$\frac{d}{dx} \left(\frac{x}{e^x} \right)$$

19:
$$\frac{d}{dx} \left(\frac{x}{e^x} \right)$$
 20: $\frac{d}{dx} \left(x \ln 2^x \right)$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

3:
$$\frac{d}{dx} \left(\ln e^x \right)$$

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6:
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7:
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9:
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 10: $\frac{d}{dx}\left(2^x\right)$ 11: $\frac{d}{dx}\left((\ln x)^2\right)$ 12: $\frac{d}{dx}\left(2^{x^2}\right)$

12:
$$\frac{d}{dx}\left(2^{x^2}\right)$$

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$$\int \left(1+\frac{1}{x}\right)dx$$

15:
$$\int \frac{1}{x+1} dx$$

16:
$$\int e^{\sin x} \cos x \, dx$$
 17: $\frac{d}{dx} \left(e^{x^2} \right)$ **18**: $\int 3x^2 e^{x^3} \, dx$

17:
$$\frac{d}{dx}\left(e^{x^2}\right)$$

18:
$$\int 3x^2 e^{x^3} dx$$

$$19: \ \frac{d}{dx} \left(\frac{x}{e^x} \right)$$

$$\mathbf{20} \colon \frac{d}{dx} \bigg(x \ln 2^x \bigg)$$

19:
$$\frac{d}{dx} \left(\frac{x}{e^x} \right)$$
 20: $\frac{d}{dx} \left(x \ln 2^x \right)$ 21: $\frac{d}{dx} \left(\ln 3^{-x} \right)$

1:
$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
$$\frac{d}{dx} \left(\ln x^2 \right)$$

3:
$$\frac{d}{dx} \left(\ln e^x \right)$$

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5:
$$\int \frac{3x^2 + 1}{x^3 + x + 2} dx$$
 6: $\int \frac{\ln x}{x} dx$ 7: $\int e^{100x} dx$ 8: $\int e^x \cos(e^x) dx$

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 14: $\int \left(1+\frac{1}{x}\right) dx$ **15**: $\int \frac{1}{x+1} dx$

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$$\int \ln 3^{-x} dx$$

$$23: \int e^{\ln x} \, dx$$

23:
$$\int e^{\ln x} dx$$
 24: $\int \frac{1}{2x+5} dx$

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$$\frac{d}{dx} \left(\frac{e^x}{x} \right)$$

2:
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$$3: \frac{d}{dx} \left(\ln e^x \right)$$

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$$23: \int e^{\ln x} \, dx$$

23:
$$\int e^{\ln x} dx$$
 24: $\int \frac{1}{2x+5} dx$ **25**: $\int \frac{\cos x}{\sin x} dx$

$$25: \int \frac{\cos x}{\sin x} \, dx$$