

Derivatives of Exponential And Logarithmic Functions

Differentiate:

1) $y = e^{3x}$

2) $y = \ln(x + 5)$

3) $y = e^{x^2}$

4) $y = \ln(4 - x)$

PREVIEW

11) $y = 2^{4x^2}$

12) $y = \log_7(x^2)$

Solutions

Differentiate:

1) $y = e^{3x}$
 $\frac{dy}{dx} = 3e^{3x}$

2) $y = \ln(x + 5)$
 $\frac{dy}{dx} = \frac{1}{x + 5}$

3) $y = e^{x^2}$
 $\frac{dy}{dx} = 2x e^{x^2}$

4) $y = \ln(4 - x)$
 $\frac{dy}{dx} = -\frac{1}{4 - x}$

PREVIEW

11) $y = 2^{4x^2}$
 $\frac{dy}{dx} = 2^{4x^2} \ln 2(8x)$
 $= 2^{4x^2+1} \ln 2x$

12) $y = \log_7(x^2)$
 $\frac{dy}{dx} = \frac{1}{\ln 7 x^2} (2x)$
 $= \frac{2}{\ln(7) x}$

5 PAGES-DETAILED SOLUTIONS INCLUDED

Exponential And Logarithmic Functions Answers

Arshad Iqbal



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