

1. Exponential differentiation:  $y = 4x^2e^x - 8xe^x$

Find  $\frac{dy}{dx}$

2. Exponential differentiation:  $y = e^{\sqrt{x+5}}$

Find  $\frac{dy}{dx}$

3. Logarithmic Differentiation:  $y = \ln(x^{14})$

4. Logarithmic Differentiation:  $y = \ln(7x^2 + 4)$

1. Logarithmic differentiation:

$$y = x^x$$

Find  $\frac{dy}{dx}$

1. Logarithmic differentiation:

$$y = (\sin(5x))^{7x}$$

Find  $\frac{dy}{dx}$

How do you feel about Logarithmic differentiation?  
Do you want additional practice?