Your formula:

$$\left(\frac{sin\left(ln\left(x\right)\right)}{2.00 \cdot x^{2.00}} + exp\left(x^{2.00} \cdot x\right)\right) \tag{1}$$

Simplified formula:

$$\left(\frac{sin\left(ln\left(x\right)\right)}{2.00 \cdot x^{2.00}} + exp\left(x^{2.00} \cdot x\right)\right) \tag{2}$$

Derivative:

$$\left(\frac{\left(\frac{1.00}{x} \cdot cos\left(ln\left(x\right)\right) \cdot 2.00 \cdot x^{2.00} - sin\left(ln\left(x\right)\right) \cdot \left(0.00 \cdot x^{2.00} + 2.00 \cdot 2.00 \cdot x^{(2.00-1.00)} \cdot 1.00\right)\right)}{2.00 \cdot x^{2.00^{2.00}}} + \left(2.00 \cdot x^{(2.0\right. \tag{3}$$

Simplified derivative:

$$\left(\frac{\left(\frac{1.00}{x} \cdot cos\left(ln\left(x\right)\right) \cdot 2.00 \cdot x^{2.00} - sin\left(ln\left(x\right)\right) \cdot 2.00 \cdot 2.00 \cdot x\right)}{2.00 \cdot x^{2.00^{2.00}}} + \left(2.00 \cdot x \cdot x + x^{2.00}\right) \cdot exp\left(x^{2.00} \cdot x\right)\right) \tag{4}$$