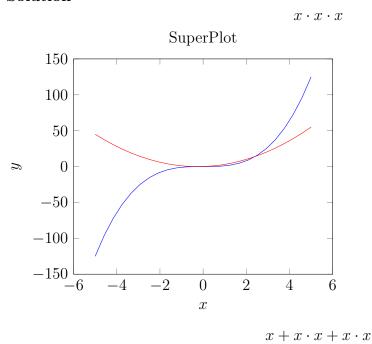
1 introductory work to the Minecraft clan "Matanists"

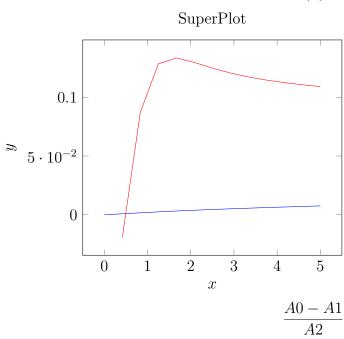
1.1 differentiate expression

Solution



1.2 differentiate expression

$$\frac{\sin(x) \cdot \cos(x)}{5 + 4 \cdot 1 + \ln(x) \cdot \ln(x) \cdot 1 \cdot 1}$$

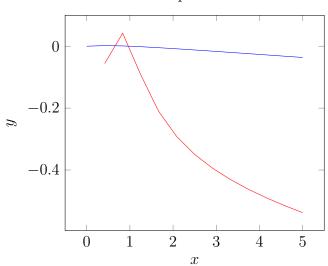


$$\begin{array}{l} \operatorname{A0} = \cos(x) \cdot \cos(x) + (-1) \cdot \sin(x) \cdot \sin(x) \cdot 9 + \ln(x) \cdot \ln(x) \\ \operatorname{A1} = \sin(x) \cdot \cos(x) \cdot \frac{1}{x} \cdot \ln(x) + \frac{1}{x} \cdot \ln(x) \\ \operatorname{A2} = 9 + \ln(x) \cdot \ln(x) \cdot 9 + \ln(x) \cdot \ln(x) \end{array}$$

1.3 differentiate expression

$$\frac{\frac{\sin(x)\cdot\cos(x)}{5+4\cdot1+\ln(x)\cdot\ln(x)\cdot1\cdot1}}{\cos(x)}\cdot\ln(\frac{\frac{\cos(x)}{x}}{x})$$

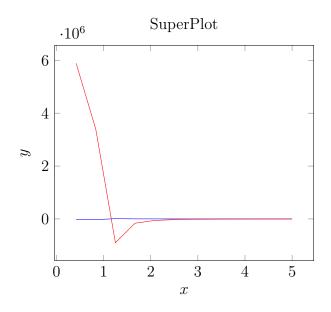




$$A0 \cdot ln(\frac{\frac{\cos(x)}{x}}{x}) + \frac{A1}{x \cdot x} \cdot \frac{1}{\frac{\cos(x)}{\frac{x}{x}}} \cdot \frac{\frac{\sin(x) \cdot \cos(x)}{9 + ln(x) \cdot ln(x)}}{\cos(x)}$$

$$\begin{array}{l} \mathrm{A0} = \frac{A2 \cdot \cos(x) - A3}{\cos(x) \cdot \cos(x)} \\ \mathrm{A3} = \frac{\sin(x) \cdot \cos(x)}{9 + \ln(x) \cdot \ln(x)} \cdot (-1) \cdot \sin(x) \end{array}$$

1.4 differentiate expression



$$\frac{\frac{x}{x}}{\frac{x}{x}} \cdot \frac{\frac{x}{x}}{\frac{x}{x}}$$

$$\frac{-\frac{x}{x}}{\frac{x}{x}} \cdot x - \frac{x}{\frac{x}{x}}$$

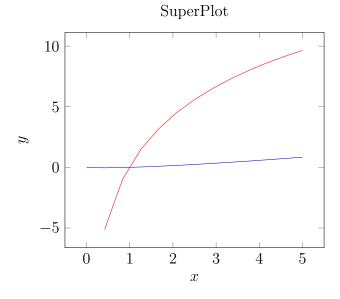
$$\frac{-\frac{x}{x}}{x} \cdot x}{x \cdot x} + A1$$

$$A0 = \frac{\frac{A2}{x \cdot x} \cdot x - \frac{\frac{x}{x}}{\frac{x}{x}}}{x \cdot x} \cdot x$$

$$A1 = \frac{\frac{A3}{\cos(x) \cdot \cos(x)} \cdot \sin(x) - \frac{\cos(x)}{\cos(x)}}{\sin(x) \cdot \sin(x)} \cdot \cos(x)}{\sin(x) \cdot \sin(x)}$$

1.5 differentiate expression

 $sin(x) \cdot ln(x) \cdot cos(x) + sin(x) \cdot ln(x) \cdot$

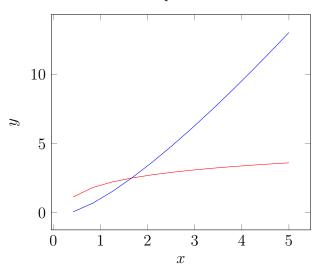


$$A0 + A1 + A2 + A3$$

$$\begin{array}{l} \mathrm{A0} = A4 + A5 + A6 \\ \mathrm{A5} = \cos(x) \cdot \ln(x) + \frac{1}{x} \cdot \sin(x) \cdot \cos(x) + (-1) \cdot \sin(x) \cdot \sin(x) \cdot \ln(x) \\ \mathrm{A6} = \cos(x) \cdot \ln(x) + \frac{1}{x} \cdot \sin(x) \cdot \cos(x) + (-1) \cdot \sin(x) \cdot \sin(x) \cdot \ln(x) \\ \mathrm{A3} = \cos(x) \cdot \ln(x) + \frac{1}{x} \cdot \sin(x) \cdot \cos(x) + (-1) \cdot \sin(x) \cdot \sin(x) \cdot \ln(x) \\ \mathrm{sfdjkfjsdfjsd} \end{array}$$

$$x + x \cdot ln(x)$$

SuperPlot



$$1 + ln(x) + \frac{1}{x} \cdot x$$