PRINT Your Name:_____

Quiz – August 24, 2004

Find $\frac{dz}{dx}$ for $z = x^2 \ln x^2 + (\ln x)^3$.

Answer:

$$\frac{dz}{dx} = x^{2} \frac{2}{x} + 2x \ln x^{2} + 3(\ln x)^{2} \frac{1}{x}.$$