PRINT Your Name: $\qquad$
Quiz - January 13, 2003
Find $\frac{d z}{d x}$ for $z=x^{2} \ln x^{2}+(\ln x)^{3}$.
Answer:

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

