1. Quick Review
2. Find the derivatives for the functions below.
(a) $f(x)=x \ln (x)$
(b) $f(x)=5 \log _{2}(x)$
(c) $f(x)=\ln \left(x^{2}+\sin (x)\right)$
(d) $f(x)=\ln \left(\frac{x^{4}}{(x+1)^{2}}\right)$
3. Logarithmic Differentiation: A Strategy for Finding Even More Derivatives
(a) $y=x^{x}$
(b) $y=\left(x^{2}+1\right)^{\sin (x)}$
(c) $y=\frac{x x^{x}}{\sqrt{1+7 x}}$
