## Some More Differentiation Practice

1. Take the derivative of the following functions:
(a) $h(x)=\ln (5)$
(b) $h(x)=\ln (5 x)$
(c) $h(x)=\ln \left(4 x^{3}+2\right)$
(d) $h(x)=3 \sin ^{-1}(2 x)$
(e) $h(x)=\sin (3 x) \ln (2 x)$
(f) $f(x)=\sin (\ln (3 x))$
(g) $g(x)=\ln (\sin (3 x))$
2. Try making sketches of $f(x)$ and $g(x)$ and their derivatives.
