Some More Differentiation Practice

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