## Some More Differentiation Practice

- 1. Take the derivative of the following functions:
  - (a)  $h(x) = \ln(3)$
  - (b)  $h(x) = \ln(3x)$
  - (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).