More Chain Rule Practice

1. Take the derivative of the following functions:

   (a) $f(x) = 4 + x$

   (b) $f(x) = \sqrt{4 + x}$

   (c) $f(x) = \sqrt{x^2 + 2^{-x^2}}$

   (d) $f(x) = \frac{e^{3x}}{x}$

   (e) $f(x) = \frac{7x}{4}$

   (f) $f(x) = \frac{4x^2}{\sqrt{4+x}}$

   (g) $f(x) = \frac{7x}{4+x}$