1. Find the antiderivatives of the following functions. You can always verify your answers by graphing f(x) and its antiderivative on the same set of axes.

(a)
$$f(x) = \sqrt{x} - 2x + 3$$

(b)
$$f(x) = x - \frac{5}{x^3} + 2x$$

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

2. Find a function g(x) with a stationary point at x = 1.