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) $f(x) = x^2 - 2x + 3$

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

   (c) $f(x) = 2x^{\pi} + x^{-42} - 17x$

   (d) $f(x) = \dfrac{7}{x} - x + 4$

2. Find a function with stationary points at $x = -1$, $x = 0$ and $x = 2$.