1. Find the derivatives of the following functions, and verify your answer by graphing $f$ and $f^{\prime}$ on the same set of axes.
(a) $f(x)=x^{2}-2 x+3$
(b) $f(x)=x^{3}-\frac{5}{x^{2}}+2$
(c) $f(x)=2 x^{\pi}+x^{-42}-17 x$
2. Find an antiderivative for each function in 1 .
