1. For each function, find a formula for its derivative.

You can 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. For each function in $\# 1$, find a function $F(x)$ whose derivative is equal to $f(x)$.

