

What is $\frac{d}{dx}f(x)$, where $f(x) = ax^2$?

What is $\frac{d}{dx}f(x)$, where $f(x) = (ax - b)^2$?

Find the global extremum (minimum or maximum) of $f(x) = (2x - 3)^2$?
What are the values of $f(x)$ and x at the extremum? Is it a global maximum or minimum?