Name:

1. (2 points) Write the limit definition for $f^{\prime}(x)$.

For the following problems, let $f(x)=x^{2}-5 x+1$.
2. (4 points) Find $f^{\prime}(4)$ using the limit definition of the derivative.
3. (4 points) Find the equation of the line tangent to the graph of $f(x)$ at the point $(4,-3)$.

