6. (12 points) For this problem $f$ is differentiable everywhere.
(a) Let $g(x)=f(x-2)$. Describe the graph of $g(x)$ in terms of the graph of $f(x)$.
(b) If $f^{\prime}(1)=6$, what is $g^{\prime}(3)$ ? Don't do any calculations here, use the geometry of the situation from part (a) to arrive at your answer.
(c) State the limit definition of the derivative for the function $f$.
(d) Let $j(x)=f(x)+10$. Use the limit definition of the derivative to calculate the derivative of $j$ in terms of the derivative of $f$.
