Name: $\qquad$ Date: $\qquad$

| Learning Goal 3.1 | Using all basic derivative rules. |
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## Derivative

Derivative Function

Example Given the function $f(x)=2 x+1$, determine the equation of $f^{\prime}(x)$. Graph both functions.


Example Given the function $f(x)=x^{2}$, determine the equation of $f^{\prime}(x)$. Graph both functions.


Example Sketch the graph of $f^{\prime}(x)$ when


Example Below is the sketch of a function $y=f(x)$. Sketch the graph of its derivative $y=f^{\prime}(x)$.


