## Exercise 17

Make a careful sketch of the graph of $f$ and below it sketch the graph of $f^{\prime}$ in the same manner as in Exercises 4-11. Can you guess a formula for $f^{\prime}(x)$ from its graph?

$$
f(x)=e^{x}
$$

## Solution

Below is a graph of $f(x)$ versus $x$ and its derivative.


