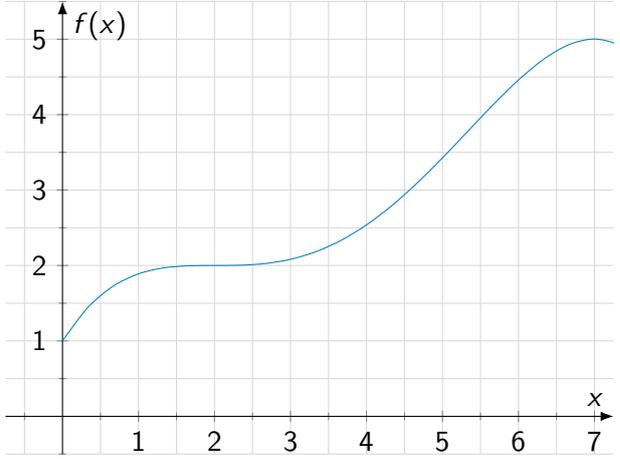
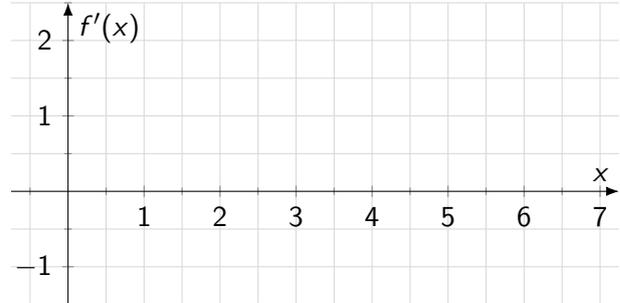
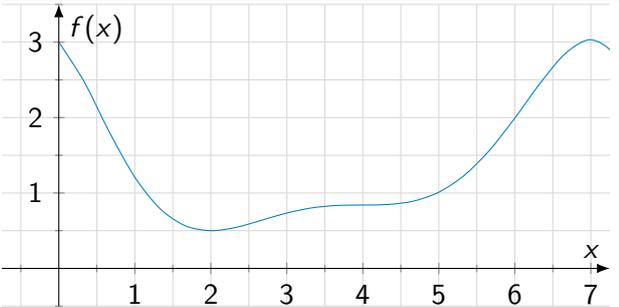
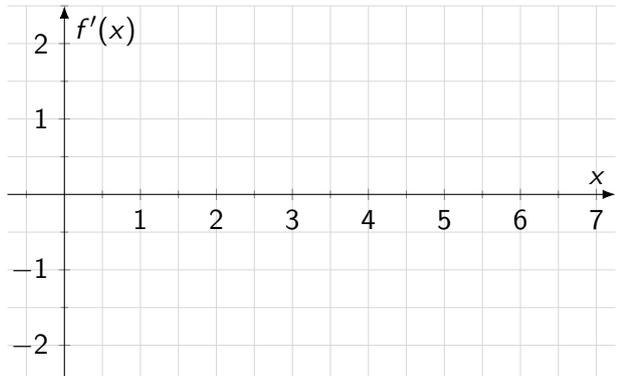
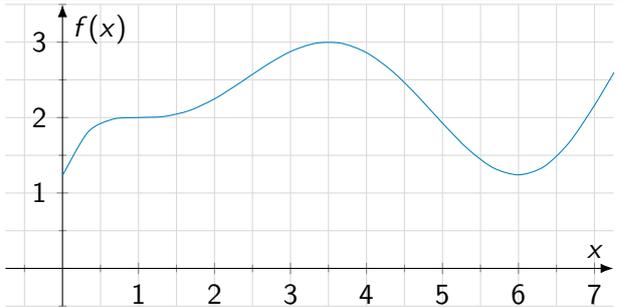
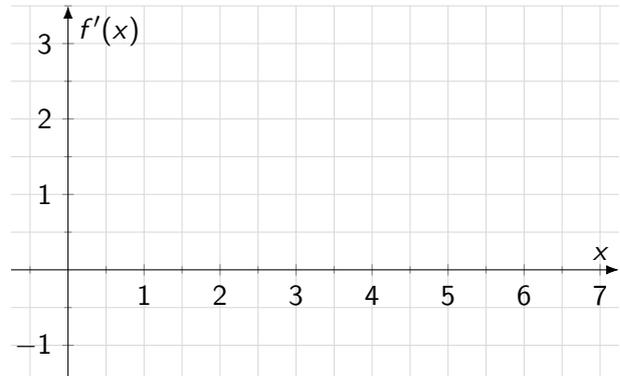


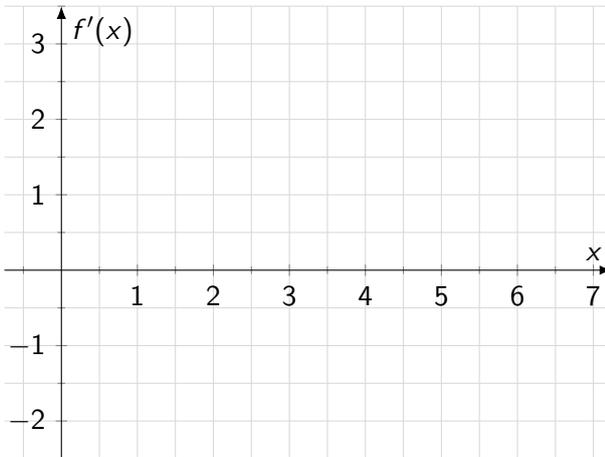
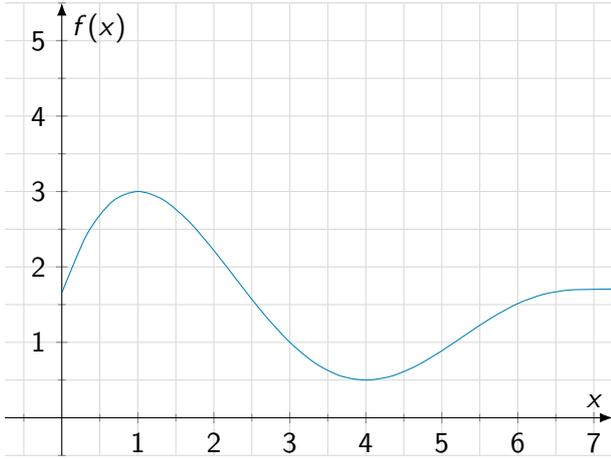
Übungen zum grafischen Ableiten

Vom Höhenprofil zum Steigungsprofil

Anleitung zum Vorgehen	Aufgabe 1
<p>Gegeben ist ein Höhenprofil (oberer Graph) und gesucht ist das Steigungsprofil (unterer Graph). Gehe so vor:</p> <ol style="list-style-type: none"> ① Suche interessante Lagen auf dem Höhenprofil. ② Lege das Geodreieck so an, dass es dieselbe Steigung hat wie der Graph an der Stelle. Zeichne die Tangente an den Graphen. ③ Bestimme die Steigung der Tangente und trage den Wert der Steigung (also die Ableitung an der entsprechenden Stelle) im rechten Koordinatensystem ein. ④ Verbinde deine eingetragenen Ableitungspunkte zum Graphen von f'. 	 <p>The graph shows a function $f(x)$ on a coordinate system with x-axis from 0 to 7 and y-axis from 0 to 5. The curve starts at (0,1), rises to a local maximum of approximately 2 at $x \approx 2$, then rises more steeply to a global maximum of 5 at $x = 7$.</p>  <p>An empty coordinate system for the derivative $f'(x)$ with x-axis from 0 to 7 and y-axis from -1 to 2.</p>

Aufgabe 2a	Aufgabe 2b
 <p>The graph shows a function $f(x)$ on a coordinate system with x-axis from 0 to 7 and y-axis from 0 to 3. The curve starts at (0,3), descends to a local minimum of approximately 0.5 at $x \approx 2$, then rises to a local maximum of approximately 3 at $x = 7$.</p>  <p>An empty coordinate system for the derivative $f'(x)$ with x-axis from 0 to 7 and y-axis from -2 to 2.</p>	 <p>The graph shows a function $f(x)$ on a coordinate system with x-axis from 0 to 7 and y-axis from 0 to 3. The curve starts at (0,1), rises to a local maximum of approximately 3 at $x \approx 3.5$, descends to a local minimum of approximately 1.2 at $x \approx 6$, and then rises to approximately 2.5 at $x = 7$.</p>  <p>An empty coordinate system for the derivative $f'(x)$ with x-axis from 0 to 7 and y-axis from -1 to 3.</p>

Aufgabe 3a



Aufgabe 3b

