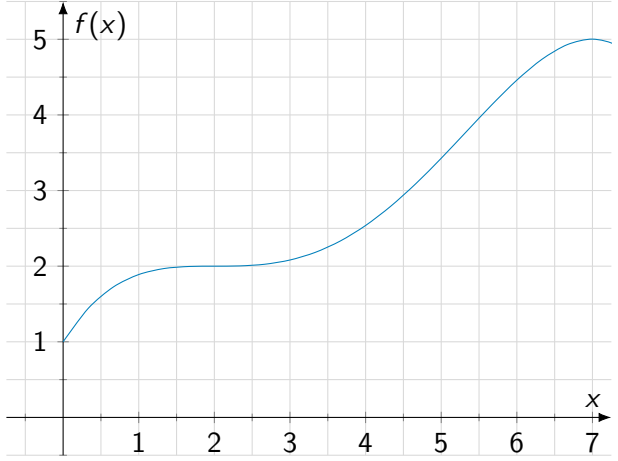

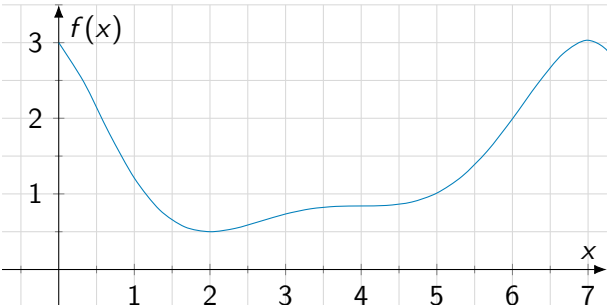
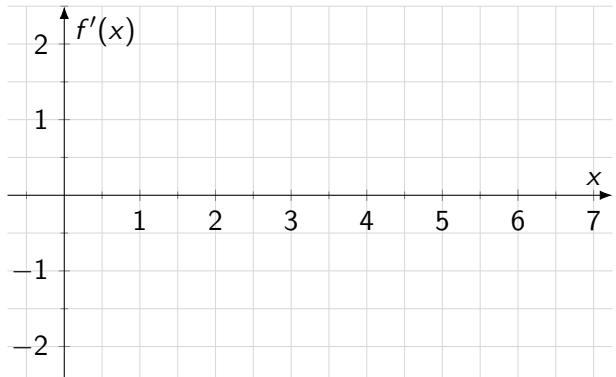
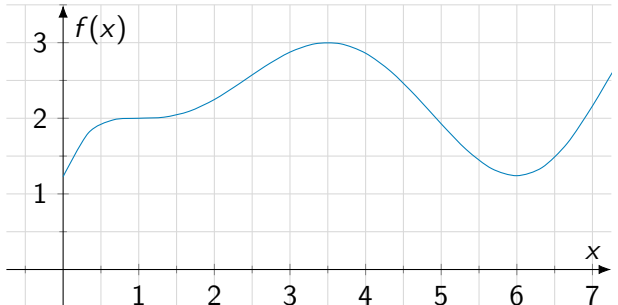
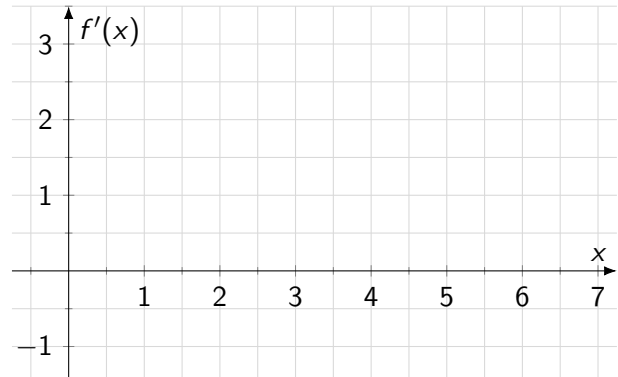


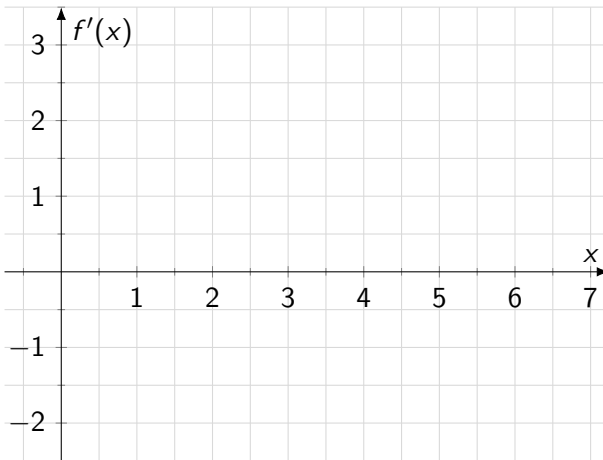
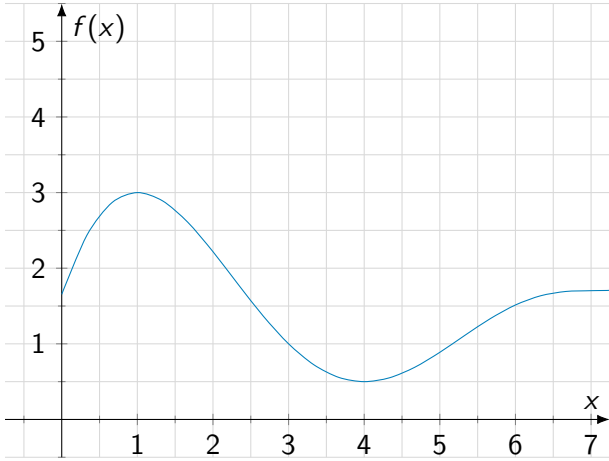
# Übungen zum grafischen Ableiten

Vom Höhenprofil zum Steigungsprofil

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

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

**Aufgabe 2d**



**Aufgabe 2e**

