

Forward difference:

$$f'(x) = \frac{f(x+h) - f(x)}{h} + O(h)$$

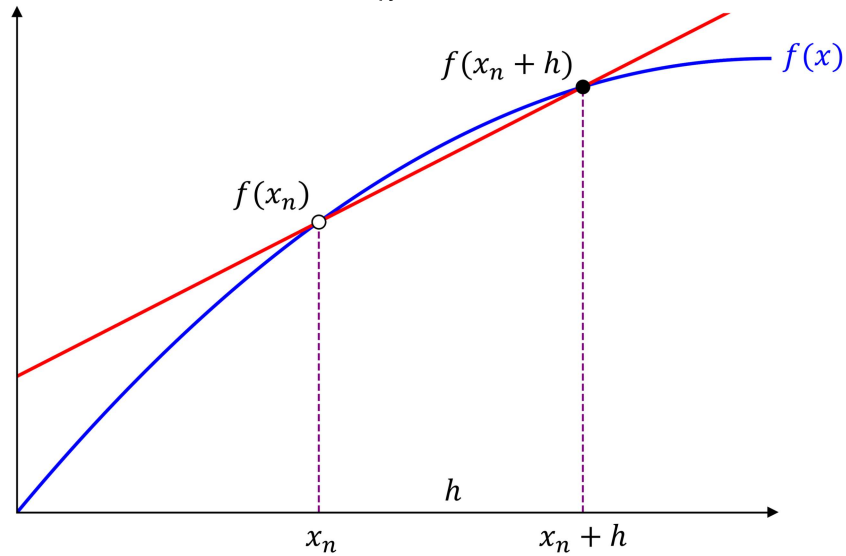


Figure 3. (2-point) Forward difference.

Backward difference:

$$f'(x) = \frac{f(x) - f(x-h)}{h} + O(h)$$

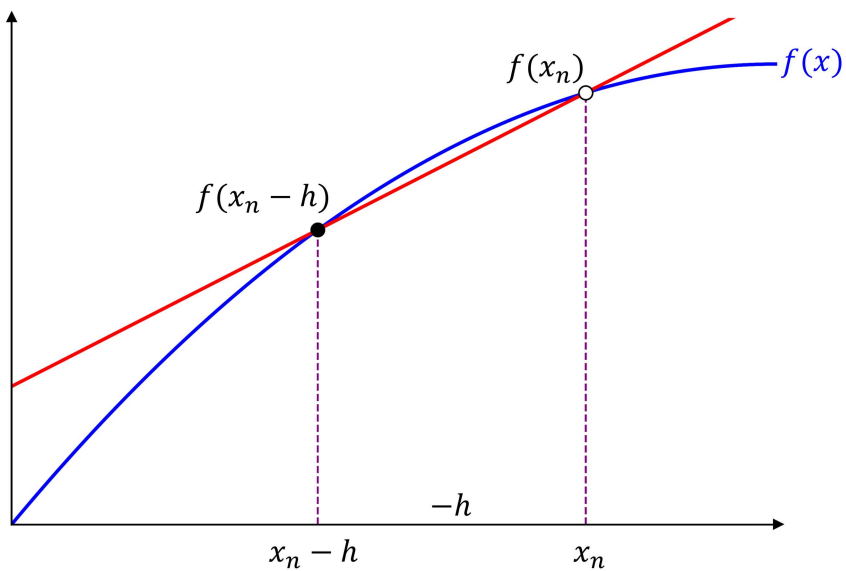


Figure 4. (2-point) Backward difference.