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10. Summary
Linear approximation

The linear approximation for a function f near a point $x = a$ is given by the following equivalent formulas:

$$\Delta f \quad \approx \left. \frac{df}{dx} \right|_{x=a} \cdot \Delta x \qquad \text{for } \Delta x \text{ near } 0$$

$$f(x) \quad \approx f'(a)(x-a) + f(a) \quad \text{for } x \text{ near } a$$

10. Summary

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