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14. Summary

The Definition of the average rate of change

The **average rate of change** of a function f(x) over an interval $a \leq x \leq b$ is defined to be

$$\frac{f(b)-f(a)}{b-a}$$
.

Definition of the derivative

The **derivative** of a function f(x) at a point x=a is defined to be

$$f'\left(a
ight)=\lim_{b
ightarrow a}rac{f\left(b
ight)-f\left(a
ight)}{b-a}.$$

14. Summary

Hide Discussion

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