

0-D integral

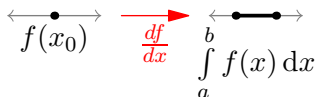
1-D integral

2-D integral

3-D integral

Eval  $f$  at point 1-var integral

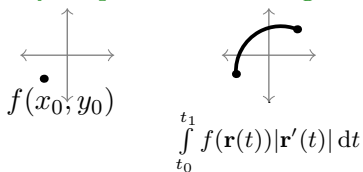
$$f: \mathbb{R}^1 \rightarrow \mathbb{R}$$



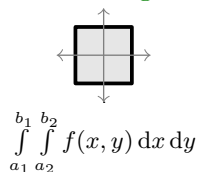
$$\mathbf{F}: \mathbb{R}^2 \rightarrow \mathbb{R}^2$$

Eval  $f$  at point Line integral

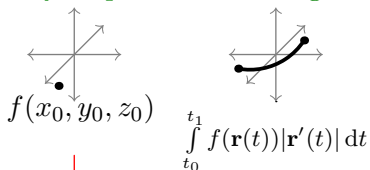
$$f: \mathbb{R}^2 \rightarrow \mathbb{R}$$



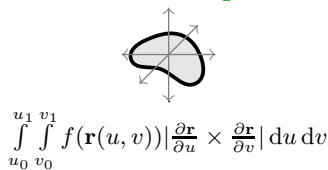
Area integral

Eval  $f$  at point Line integral

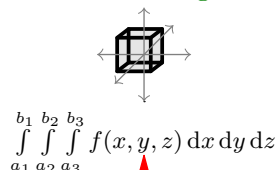
$$f: \mathbb{R}^3 \rightarrow \mathbb{R}$$



Surface integral



Volume integral



$$\mathbf{F}: \mathbb{R}^3 \rightarrow \mathbb{R}^3$$

