

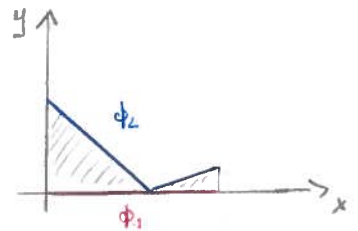
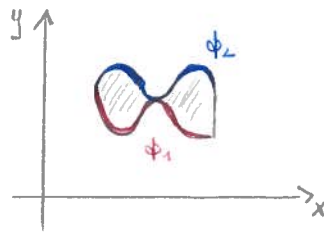
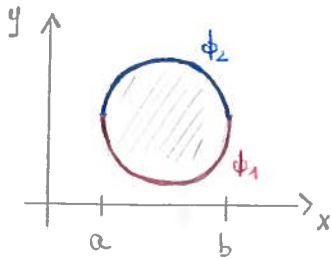
REPETITION 07/03

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

Region of type I

$$\phi_1(x) \leq \phi_2(x)$$

$$A = \{ (x,y) \in \mathbb{R}^2 \mid x \in [a,b], y \in [\phi_1(x), \phi_2(x)] \}$$



$$\iint_A f(x,y) d(x,y) = \int_a^b \int_{\phi_1(x)}^{\phi_2(x)} f(x,y) dy dx$$