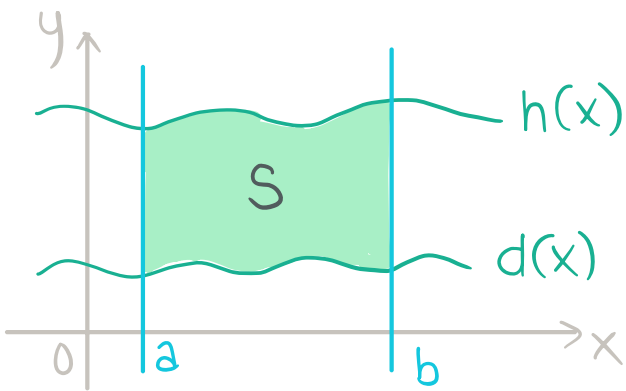


# APLIKACE INTEGRACE

## • OBSAH PLOCHY

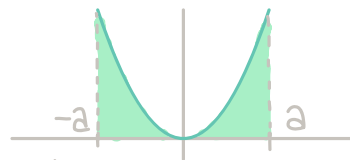


$$S = \int_a^b h(x) - d(x) dx$$

$a, b$  ..... meze  $\rightarrow$  OSA  $x$   
 $h(x), d(x)$  ..... funkce  $\uparrow$  OSA  $y$

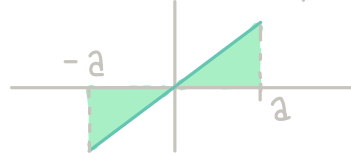
$\rightarrow$  symetrický interval

a) funkce sudá'



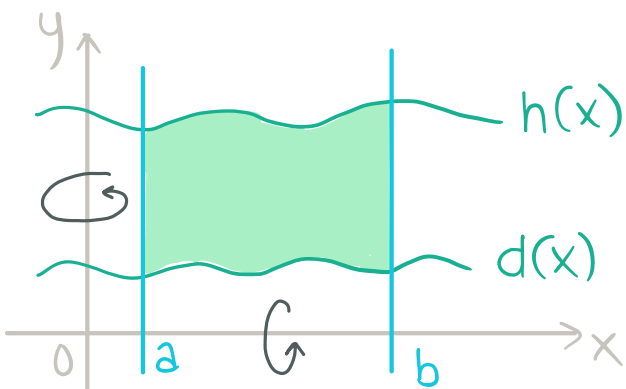
$$S = 2 \cdot \int_0^a f(x) dx$$

b) funkce lichá'



$$S = \int_{-a}^a f(x) dx = 0$$

## • OBJEM TĚLESA



$$V_x = \pi \int_a^b h^2(x) - d^2(x) dx$$

$$V_y = 2\pi \int_a^b x \cdot h(x) - x \cdot d(x) dx$$

