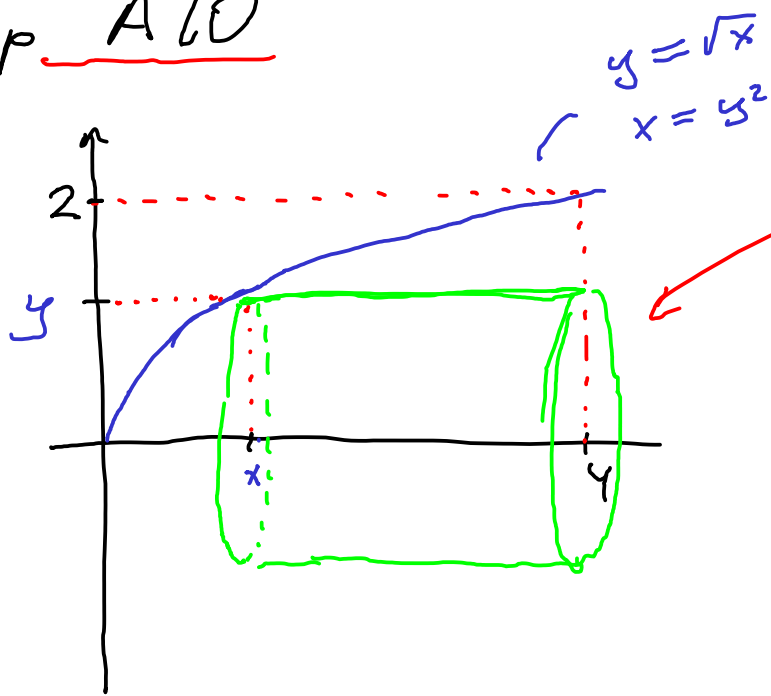
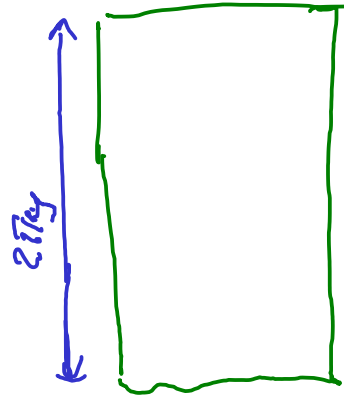


# Rep A10



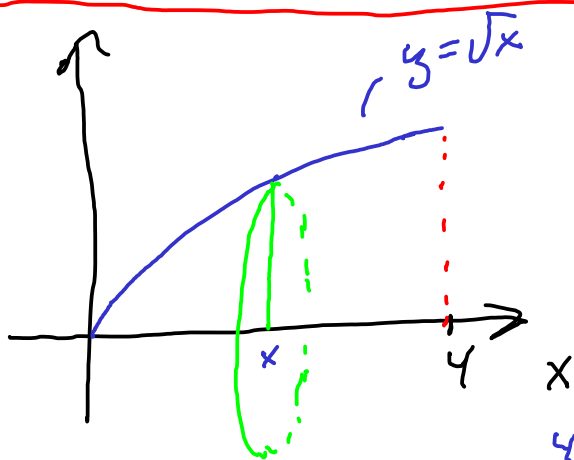
Area on derma  
gibt  $y$ ?

$$4-x = 4-y^2$$



$$A(y) = 2\pi y(4-y^2)$$

$$\begin{aligned} V &= \int_0^2 A(y) dy = \int_0^2 2\pi y(4-y^2) dy = 2\pi \int_0^2 (4y - y^3) dy \\ &= 2\pi \left[ 2y^2 - \frac{y^4}{4} \right]_0^2 = 2\pi (8 - 4) = 8\pi \end{aligned}$$



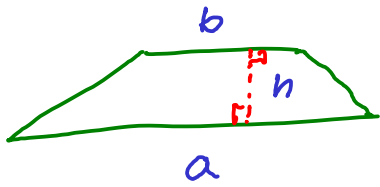
Area

$$A(x) = \pi y^2 = \pi (\sqrt{x})^2 = \pi \cdot x$$

$$V = \int_0^4 A(x) \cdot dx = \int_0^4 \pi x dx = \left[ \pi \cdot \frac{x^2}{2} \right]_0^4$$

$$= \pi \cdot 8 - 0 = 8\pi$$

# Area för parallelltrapets



$$A = \frac{h \cdot (a+b)}{2}$$