

Pythagoras uitwerkingen werkblad 1

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Opgave 3

$$y = \frac{r}{h}x$$

Opgave 4

$$\begin{aligned}\text{Straal} &= \frac{r}{h}x \\ \text{inhoud} &= \pi \left(\frac{r}{h}x\right)^2\end{aligned}$$

Opgave 5

0.1 a

$$y = \frac{1}{2}x$$

b

$$\begin{aligned}& \pi \int_0^2 \left(\frac{1}{2}x\right)^2 dx \\&= \pi \int_0^2 \frac{1}{2} x^2 dx \\&= \pi \int_0^2 \frac{1}{4} x^2 dx \\&= \pi \left[\frac{1}{12} x^3 \right]_0^2 \\&= \frac{8}{12} \pi\end{aligned}$$

c

inhoud =

$$\frac{1}{3}\pi \cdot 1^2 \cdot 2$$
$$\frac{2}{3}\pi$$

Hij is hetzelfde