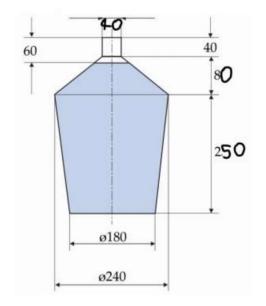
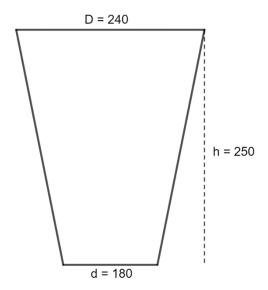
Navn:		Skole:	
Klasse: 20		Dato: 10. maj 2021	Fag: Matematik A

Opgave 199





$$d = 180$$

$$D = 240$$

$$r = \frac{d}{2} = 90$$

$$R = \frac{D}{2} = 120$$

$$h = 250$$

$$\begin{split} V_{bund} &= \frac{1}{3} \cdot \pi \cdot h \cdot (r^2 + R^2 + r \cdot R) \\ V_{bund} &= \frac{1}{3} \cdot \pi \cdot 250 \cdot (90^2 + 120^2 + 90 \cdot 120) & | \textit{Indsæt tal} \\ V_{bund} &= \frac{1}{3} \cdot \pi \cdot 250 \cdot (8100 + 14400 + 90 \cdot 120) & | \textit{Potens} \\ V_{bund} &= \frac{1}{3} \cdot \pi \cdot 250 \cdot (8100 + 144000 + 10800) & | \textit{Gange} \\ V_{bund} &= \frac{1}{3} \cdot \pi \cdot 250 \cdot 33300 & | \textit{Plus} \\ V_{bund} &= 8717919.61 & | \textit{Gange} \end{split}$$

Navn:		Skole:	
Klasse: 20		Dato: 10. maj 2021	Fag: Matematik A

$$d_1 = 40$$

$$D = 240$$

$$R = \frac{D}{2} = 120$$

$$h_2 = 80$$

$$h = 60$$

$$d = D - \frac{(D - d_1) \cdot h}{h_2}$$

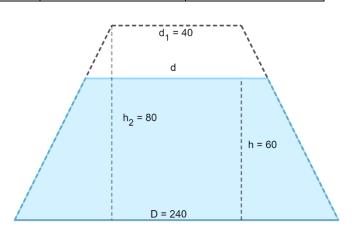
$$d = 240 - \frac{(240 - 40) \cdot 60}{80} \quad | Indsæt tal$$

$$d = 240 - \frac{200 \cdot 60}{80} \quad | Minus$$

$$d = 240 - \frac{12000}{80} \quad | Gange$$

$$d = 240 - 150 \quad | Brøk$$

$$d = 90 \quad | Minus$$



$$r = \frac{d}{2} = 45$$

$$\begin{split} V_{top} &= \frac{1}{3} \cdot \pi \cdot h \cdot (r^2 + R^2 + r \cdot R) \\ V_{top} &= \frac{1}{3} \cdot \pi \cdot 60 \cdot (45^2 + 120^2 + 45 \cdot 120) \quad | \ \textit{Indsæt tal} \\ V_{top} &= \frac{1}{3} \cdot \pi \cdot 60 \cdot (2025 + 14400 + 45 \cdot 120) \mid \textit{Potens} \\ V_{top} &= \frac{1}{3} \cdot \pi \cdot 60 \cdot (2025 + 14400 + 5400) \quad | \ \textit{Gange} \\ V_{top} &= \frac{1}{3} \cdot \pi \cdot 60 \cdot 21825 \quad | \ \textit{Plus} \\ V_{top} &= 1371305.19 \quad | \ \textit{Gange} \end{split}$$

$$\begin{split} V_{total} &= V_{bund} + V_{top} \\ V_{total} &= 8717919.61 + 1371305.19 \quad | \; Indsæt \; tal \\ V_{total} &= 10089224.81 \qquad \qquad | \; Plus \end{split}$$