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## Opgave 004

#### **Overfladeareal**

Kasse

$$A_{kasse} = 6 \cdot x_1^2$$

$$\frac{A_{kasse}}{6} = x_1^2 \qquad | \ \, Divider \ med \ 6$$

$$x_1 = \sqrt{\frac{A_{kasse}}{6}} \qquad | \ \, Tag \ kvadratrod$$

$$x_1 = \sqrt{\frac{30}{6}} \qquad | \ \, Indsæt \ tal$$

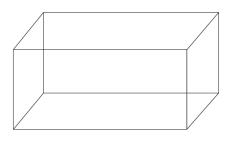
$$x_1 = \sqrt{5} \qquad | \ \, Udregn \ brøk$$

$$x_1 = 2.24 \qquad | \ \, Kvrod$$

$$V_{kasse} = x_1^3$$

$$V_{kasse} = 2.24^3$$

$$V_{kasse} = 11.24$$

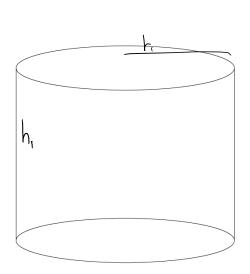




# Cylinder

Sætter r til af være 1.5, bare fordi jeg kan

$$\begin{array}{lll} A_{cyl} = \pi \cdot r_{1}^{2} \cdot 2 + 2 \cdot r_{1} \cdot \pi \cdot h_{1} \\ A_{cyl} - \pi \cdot r_{1}^{2} \cdot 2 = 2 \cdot r_{1} \cdot \pi \cdot h_{1} & | \mathit{Minus} \, \pi \cdot r_{1}^{2} \cdot 2 \\ & \frac{A_{cyl} - \pi \cdot r_{1}^{2} \cdot 2}{2 \cdot r_{1} \cdot \pi} = h_{1} & | \mathit{Divider} \, \mathit{med} \, 2 \cdot r_{1} \cdot \pi \\ h_{1} = \frac{A_{cyl} - \pi \cdot r^{2} \cdot 2}{2 \cdot r_{1} \cdot \pi} & | \mathit{Vend} \, \mathit{om} \\ h_{1} = \frac{30 - \pi \cdot 1.5^{2} \cdot 2}{2 \cdot 1.5 \cdot \pi} & | \mathit{Indsæt} \, \mathit{tal} \\ h_{1} = \frac{30 - \pi \cdot 2.25 \cdot 2}{2 \cdot 1.5 \cdot \pi} & | \mathit{Udreng} \, \mathit{potens} \\ h_{1} = \frac{30 - 14.14}{2 \cdot 1.5 \cdot \pi} & | \mathit{Gange} \, \mathit{sammen} \, \mathit{i} \, \mathit{tæller} \\ h_{1} = \frac{15.86}{2 \cdot 1.5 \cdot \pi} & | \mathit{Minus} \, \mathit{i} \, \mathit{tælleren} \\ h_{1} = \frac{15.86}{9.42} & | \mathit{Udregn} \, \mathit{nævner} \\ h_{1} = 1.68 & | \mathit{Udregn} \, \mathit{brøk} \\ & V_{cylinder} = \pi \cdot r_{1}^{2} \cdot h_{1} \end{array}$$



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$$V_{cylinder} = \pi \cdot 1.5^2 \cdot 1.68$$
  
 $V_{cylinder} = \pi \cdot 2.25 \cdot 1.68$   
 $V_{cylinder} = 11.88$ 

## Kugle

$$A_{kugle} = 4 \cdot \pi \cdot r^2$$
 Formel for kugle areal

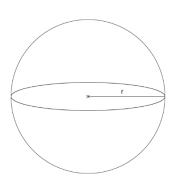
$$\frac{A_{kugle}}{4 \cdot \pi} = r^2$$
 Divider med 4pi

$$\sqrt{\frac{A_{kugle}}{4 \cdot \pi}} = r$$
 Kvrod

$$r=\sqrt{rac{30}{4\cdot\pi}}$$
 Indsæt tal

$$r=\sqrt{2.39}$$
 Brøk  $r=1.55$  Kvrod

$$\begin{aligned} V_{kugle} &= \frac{4}{3} \cdot \pi \cdot r^3 \\ V_{kugle} &= \frac{4}{3} \cdot \pi \cdot 1.55 \\ V_{kugle} &= 15.6 \end{aligned}$$



# **Pyramide**

$$a = 4$$

$$A = a^2 + a \cdot \sqrt{\left(\frac{a}{2}\right)^2 + h^2}$$
 Formel for overfladeareal 
$$A - a^2 = a \cdot \sqrt{\left(\frac{a}{2}\right)^2 + h^2}$$
 Minus  $a^2$  
$$\frac{A - a^2}{a} = \sqrt{\left(\frac{a}{2}\right)^2 + h^2}$$
 Divider med a

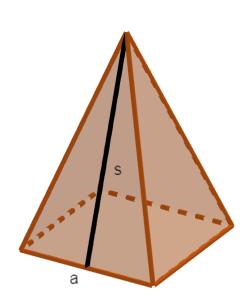
$$\left(\frac{A-a^2}{a}\right)^2 = \left(\frac{a}{2}\right)^2 + h^2$$
 Fjern kvrod 
$$\left(\frac{A-a^2}{a}\right)^2 - \left(\frac{a}{2}\right)^2 = h^2$$
 Minus  $\frac{a^2}{2}$ 

$$\sqrt{\left(\frac{A-a^2}{a}\right)^2 - \left(\frac{a}{2}\right)^2} = h$$
 Fjern potens

$$h = \sqrt{\frac{30 - 4^2^2}{4} - \frac{4^2}{2}}$$
 Indsæt tal  $h = \sqrt{\frac{30 - 16^2}{4} - \frac{4^2}{2}}$  Udregn po

$$h = \sqrt{\frac{30-16^2}{4} - \frac{4^2}{2}}$$
 Udregn potens

$$h = \sqrt{\frac{30 - 16^2}{4} - 2^2}$$
 Udregn brøk



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$$h = \sqrt{\frac{14^2}{4} - 2^2} \qquad \qquad \text{Minus i brøk}$$
 
$$h = \sqrt{3.5^2 - 2^2} \qquad \qquad \text{Udregn brøk}$$
 
$$h = \sqrt{12.25 - 4} \qquad \qquad \text{Udregn potens}$$
 
$$h = \sqrt{8.25} \qquad \qquad \text{Minus}$$
 
$$h = 2.87 \qquad \qquad \text{Udregn kvrod}$$

$$\begin{split} V_{kegle} &= \frac{1}{3} \cdot h \cdot a^2 \\ V_{kegle} &= \frac{1}{3} \cdot 2.87 \cdot 4^2 \quad | \; Indsæt \; tal \\ V_{kegle} &= \frac{1}{3} \cdot 2.87 \cdot 16 \quad | \; Potens \\ V_{kegle} &= 15.31 \qquad | \; Gange \end{split}$$

#### Pyramidestub

$$m_1 = 1$$
$$m_2 = 0.5$$

$$\begin{split} A &= m_1^2 \cdot 4 + m_2^2 \cdot 4 + 2 \cdot (2 \cdot m_2 + 2 \cdot m_1) \cdot \sqrt{h^2 + (m_2 - m_1)^2} \\ A &- m_1^2 \cdot 4 - m_2^2 \cdot 4 = 2 \cdot (2 \cdot m_2 + 2 \cdot m_1) \cdot \sqrt{h^2 + (m_2 - m_1)^2} \\ & \text{Isoler en masse lort} \end{split}$$

$$\frac{A - m_1^2 \cdot 4 - m_2^2 \cdot 4}{2 \cdot (2 \cdot m_2 + 2 \cdot m_1)} = \sqrt{h^2 + (m_2 - m_1)^2}$$

Divider med an masse lort

$$\left(\frac{A - m_1^2 \cdot 4 - m_2^2 \cdot 4}{2 \cdot (2 \cdot m_2 + 2 \cdot m_1)}\right)^2 = h^2 + (m_2 - m_1)^2$$

Indsæt potens

$$\left(\frac{A - m_1^2 \cdot 4 - m_2^2 \cdot 4}{2 \cdot (2 \cdot m_2 + 2 \cdot m_1)}\right)^2 - (m_2 - m_1)^2 = h^2$$

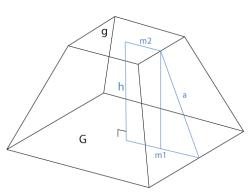
Minus noget mere

$$h = \sqrt{\left(\frac{A - m_1^2 \cdot 4 - m_2^2 \cdot 4}{2 \cdot (2 \cdot m_2 + 2 \cdot m_1)}\right)^2 - (m_2 - m_1)^2}$$

$$h = \sqrt{\left(\frac{30 - 1^2 \cdot 4 - 0.5^2 \cdot 4}{2 \cdot (2 \cdot 0.5 + 2 \cdot 1)}\right)^2 - (1 - 0.5)^2}$$

Indsæt tal

$$h = \sqrt{\left(\frac{25}{6}\right)^2 - 0.5^2}$$



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**Fuck** 

$$h = \sqrt{4.17^2 - 0.5^2}$$

**Potens** 

$$h = \sqrt{17.39 - 0.25}$$

Minus

$$h = \sqrt{17.14}$$

Kvrod

$$h = 4.14$$

$$G=m_1^2\cdot 4$$

$$G = 1^2 \cdot 4 \mid Indsæt tal$$

$$G = 4$$
 |  $Udregn$ 

$$g=m_2^2\cdot 4$$

$$g = 0.5^2 \cdot 4 \mid Indsæt tal$$

$$g = 1$$
 |  $Udregn$ 

$$V_{pyrstub} = \frac{h}{3} \cdot \left( G + g + \sqrt{G + g} \right)$$

$$V_{pyrstub} = \frac{4.14}{3} \cdot \left(4 + 1 + \sqrt{4 + 1}\right) \mid Indsæt \ tal$$

$$V_{pyrstub} = 1.38 \cdot \left(4 + 1 + \sqrt{4 + 1}\right) \mid Br \emptyset k$$

$$V_{pyrstub} = 1.38 \cdot \left(5 + \sqrt{5}\right) \qquad | Plus$$

$$V_{pyrstub} = 1.38 \cdot 7.24$$
 | Regn parentes

$$V_{pyrstub} = 9.99$$
 |  $Gange$ 



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#### Kegle

Sætter r til 1.5

$$A_{kegle} = \pi \cdot r \cdot \sqrt{r^2 + h^2} + \pi \cdot r^2$$

Formel for areal

$$h = \sqrt{\frac{A_{kegle} - 2\pi Ar^2}{\pi^2 \cdot r^2}}$$

Isoler h

$$h = \sqrt{\frac{30 - 2\pi \cdot 30 \cdot 1.5^2}{\pi^2 \cdot 1.5^2}}$$

Indsæt tal

$$h = \sqrt{\frac{30 - 2\pi \cdot 30 \cdot 1.5^2}{22.21}}$$

Uregn nævner

$$h = \sqrt{\frac{-394.12}{22.21}}$$

Udregn tæller

$$h = \sqrt{-17.75}$$

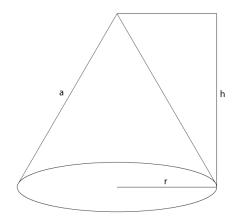
Brøk

$$h = 4.21$$

Tager kvrod af det posetive tal

$$V_{kegle} = \frac{1}{3} \cdot h \cdot (\pi \cdot r^2)$$

$$V_{kegle} = 9.92$$



## Kegle stub

Sætter  $r_1 = 1.5 \text{ og } r_2 = 1$ 

$$A_{keglestub} = \pi \cdot (r_1 + r_2) \cdot a + \pi \cdot r_1^2 + \pi \cdot r_2^2$$

$$\frac{A_{keglestub} - \pi \cdot r_1^2 - \pi \cdot r_2^2}{\pi \cdot (r_1 + r_2)} = a \qquad \text{Isoler a}$$

$$a = \frac{30 - \pi \cdot 1.5^2 - \pi \cdot 1^2}{\pi \cdot (1.5 + 1)} \qquad \text{Indsæt}$$

$$a = \frac{30 - \pi \cdot 1.5^2 - \pi \cdot 1^2}{7.85} \qquad \text{Udregn}$$

$$a = \frac{19.89}{7.85} \qquad \text{Udregn}$$

$$a = \frac{30 - \pi \cdot 1.5^2 - \pi \cdot 1^2}{\pi \cdot (1.5 + 1)}$$
 Indsæt tal

$$a = \frac{30 - \pi \cdot 1.5^2 - \pi \cdot 1^2}{7.85}$$
 Udregn tæller

$$a = \frac{19.89}{7.85}$$
 Udregn nævner

$$a=2.52$$
 Brøk

$$h = \sqrt{a^2 - (r_1 - r_2)^2}$$

$$h = \sqrt{2.52^2 - (1.5 - 1)^2}$$
 Indsæt tal

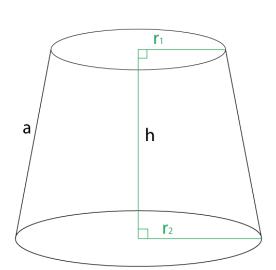
$$h = \sqrt{2.52^2 - 0.5^2}$$
 Minus

$$h = \sqrt{6.35 - 0.25}$$
 Potens

$$h = \sqrt{6.1}$$
 Minus

$$h = 2.47$$
 Kvrod

$$\begin{split} V_{keglestub} &= \frac{1}{3} \cdot \pi \cdot h \cdot (r_1^2 + r_2^2 + r_1 \cdot r_2) \\ V_{keglestub} &= \frac{1}{3} \cdot \pi \cdot 2.47 \cdot (1.5^2 + 1^2 + 1.5 \cdot 1) \mid Indsæt \ tal \end{split}$$





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$$V_{keglestub} = \frac{1}{3} \cdot \pi \cdot 2.47 \cdot 4.75$$
  
 $V_{keglestub} = 12.29$ 

| Parentes | Gange

## Kugle kalot

$$h = 1.5$$

$$A = \pi \cdot d \cdot h$$

$$d = \frac{A}{\pi \cdot h}$$
 Divider med pi h  
 $d = \frac{30}{\pi \cdot 1.5}$  Indsæt tal

Klasse:

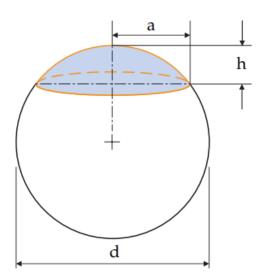
20htxcR

$$d = \frac{30}{\pi \cdot 1.5}$$
 Indsæt tal

$$d = \frac{30}{4.71}$$
 Gange

$$d = 6.37$$
 Brøk

$$\begin{split} V_{kalot} &= \frac{\pi}{6} \cdot h^2 \cdot (3d - 2h) \\ V_{kalot} &= \frac{\pi}{6} \cdot 1.5^2 \cdot (3 \cdot 6.37 - 2 \cdot 1.5) \mid Indsæt \ tal \\ V_{kalot} &= \frac{\pi}{6} \cdot 2.25 \cdot (19.11 - 3) \qquad \mid Gange \\ V_{kalot} &= \frac{\pi}{6} \cdot 2.25 \cdot 16.11 \qquad \mid Minus \\ V_{kalot} &= 18.98 \qquad \mid Gange \end{split}$$



### Rangeret efter volumen

- 1. Kalot
- 2. Kugle
- 3. Pyramide
- 4. keglestub
- 5. Cylinder
- 6. Kasse
- 7. Pyramide stub
- 8. Kegle



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# Rumfang

#### Kasse

$$V = s^3$$
  
 $10 = s^3 \mid Indsæt tal$   
 $s = \sqrt[3]{10} \mid Kubikrod$   
 $s = 2.15 \mid Udregn$ 

$$A_{kasse} = 6 \cdot s^2$$
  
 $A_{kasse} = 6 \cdot 2.15^2 \mid Indsæt tal$   
 $A_{kasse} = 6 \cdot 4.62 \mid Potens$   
 $A_{kasse} = 27.74 \mid Gange$ 



# Cylinder

$$r = 1.5$$

$$V = \pi \cdot r^{2} \cdot h$$

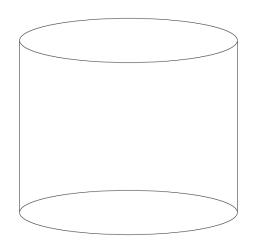
$$\frac{V}{\pi \cdot r^{2}} = h \quad | \text{Divider}$$

$$h = \frac{10}{\pi \cdot 1.5^{2}} \quad | \text{Indsæt tal}$$

$$h = \frac{10}{\pi \cdot 2.25} \quad | \text{Potens}$$

$$h = \frac{10}{7.07} \quad | \text{Gange}$$

$$h = 1.41 \quad | \text{Divider}$$



$$\begin{split} A_{cyl} &= \pi \cdot r^2 \cdot 2 + 2 \cdot \pi \cdot r \cdot h \\ A_{cyl} &= \pi \cdot 1.5^2 \cdot 2 + 2 \cdot \pi \cdot 1.5 \cdot 1.41 \quad | \; Indsæt \; tal \\ A_{cyl} &= 27.43 \qquad \qquad | \; Gange \end{split}$$



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## Kugle

$$V = \frac{4}{3} \cdot \pi \cdot r^{3}$$

$$r^{3} = \frac{V}{\frac{4}{3} \cdot \pi} \qquad | \text{Divider med } \frac{4}{3}\pi$$

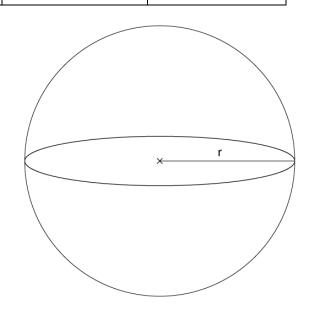
$$r = \sqrt[3]{\frac{V}{\frac{4}{3} \cdot \pi}} \qquad | \text{Kubik rod}$$

$$r = \sqrt[3]{\frac{10}{\frac{4}{3} \cdot \pi}} \qquad | \text{Indsæt tal}$$

$$r = \sqrt[3]{\frac{10}{4.19}} \qquad | \text{Gange}$$

$$r = \sqrt[3]{2.39} \qquad | \text{Kubikrod}$$

$$r = 1.34 \qquad | \text{Tag rod}$$



# Pyramide

$$a = 4$$

 $A_{kugle} = 4 \cdot \pi \cdot r^2$ 

 $A_{kugle} = 4 \cdot \pi \cdot 1.8$ 

 $A_{kugle} = 22.62$ 

 $A_{kugle} = 4 \cdot \pi \cdot 1.34^2$  | Indsæt tal

| Potens

| Gange

$$V = \frac{1}{3} \cdot h \cdot a^{2}$$

$$\frac{V}{\frac{1}{3} \cdot a^{2}} = h \qquad \text{Diver med } \frac{1}{3} \cdot a^{2}$$

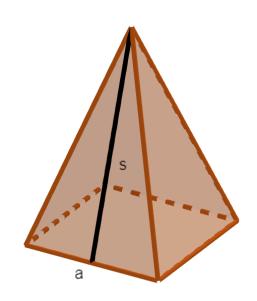
$$h = \frac{10}{\frac{1}{3} \cdot 4^{2}} \qquad \text{Indsæt tal}$$

$$h = \frac{10}{\frac{1}{3} \cdot 16} \qquad \text{Udregn potens}$$

$$h = \frac{10}{5.33} \qquad \text{Udregn nævner}$$

$$h = 1.88 \qquad \text{Brøk}$$

$$\begin{split} A_{kegle} &= a^2 + a \cdot \sqrt{\frac{a^2}{4} + h^2} \\ A_{kegle} &= 4^2 + 4 \cdot \sqrt{\frac{4^2}{4} + 1.88^2} \quad | \; Indsæt\; tal \end{split}$$



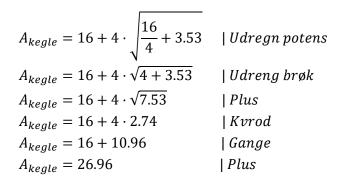


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#### Pyramidestub

$$m_1 = 1$$
$$m_2 = 0.5$$

$$G = m_1^2 \cdot 4$$
  
 $G = 1^2 \cdot 4 \mid Indsæt tal$   
 $G = 4 \mid Udregn$ 

$$g = m_2^2 \cdot 4$$
  
 $g = 0.5^2 \cdot 4 \mid Indsæt tal$   
 $g = 1 \mid Udregn$ 

$$V = \frac{h}{3} \cdot \left(G + g + \sqrt{G + g}\right)$$

$$\frac{V}{\left(G + g + \sqrt{G + g}\right)} = \frac{h}{3} \quad | Divider$$

$$\frac{V \cdot 3}{\left(G + g + \sqrt{G + g}\right)} = h \mid Gange 3$$

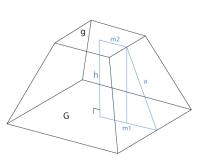
$$h = \frac{10 \cdot 3}{4 + 1 + \sqrt{4 + 1}} \quad | Indsæt tal$$

$$h = \frac{30}{5 + \sqrt{5}} \quad | Simplificer$$

$$h = \frac{30}{7.24} \quad | Plus$$

$$\begin{array}{lll} A = m_1^2 \cdot 4 + m_2^2 \cdot 4 + 2 \cdot (2 \cdot m_2 + 2 \cdot m_1) \cdot \sqrt{h^2 + (m_2 - m_1)^2} \\ A = 1^2 \cdot 4 + 0.5^2 \cdot 4 + 2 \cdot (2 \cdot 0.5 + 2 \cdot 1) \cdot \sqrt{4.14^2 + (1 - 0.5)^2} & | \textit{Indsæt tal} \\ A = 5 + 2 \cdot 3 \cdot \sqrt{17.14 + 0.5^2} & | \textit{Simplificer} \\ A = 5 + 2 \cdot 3 \cdot \sqrt{17.14 + 0.25} & | \textit{Potens} \\ A = 5 + 2 \cdot 3 \cdot \sqrt{17.39} & | \textit{Plus} \\ A = 5 + 2 \cdot 3 \cdot 4.17 & | \textit{Kvrod} \\ \end{array}$$

$$A = 30$$
 |  $Udregn$ 





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#### Kegle

$$r = 2$$

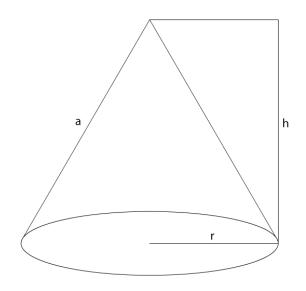
$$h = \frac{V}{\frac{1}{3} \cdot \pi \cdot r^{2}}$$

$$h = \frac{10}{\frac{1}{3} \cdot \pi \cdot 2^{2}} \quad | Indsæt tal$$

$$h = \frac{10}{\frac{1}{3} \cdot \pi \cdot 4} \quad | Potens$$

$$h = \frac{10}{4.19} \quad | Gange$$

$$h = 2.39 \quad | Brøk$$



$$\begin{split} A_{kegle} &= \pi \cdot r \cdot \sqrt{r^2 + h^2} \\ A_{kegle} &= \pi \cdot 2 \cdot \sqrt{2^2 + 2.39^2} \quad | \; Indsæt \; tal \\ A_{kegle} &= \pi \cdot 2 \cdot \sqrt{4 + 5.71} \qquad | \; Potens \\ A_{kegle} &= \pi \cdot 2 \cdot \sqrt{9.71} \qquad | \; Plus \end{split}$$

$$A_{kegle} = \pi \cdot 2 \cdot 3.12$$
 | Kvrod  
 $A_{kegle} = 19.61$  | Gange

# Keglestub

$$r1 = 1$$

$$r2 = 2$$

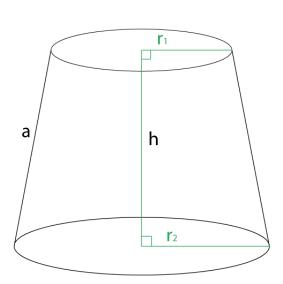
$$h = \frac{10}{\frac{1}{3} \cdot \pi \cdot (r1^2 + r2^2 + r1 \cdot r2)}$$

$$h = \frac{10}{\frac{1}{3} \cdot \pi \cdot (1^2 + 2^2 + 1 \cdot 2)} \quad | Indsæt tal$$

$$h = \frac{10}{\frac{1}{3} \cdot \pi \cdot 7} \quad | Parentes$$

$$h = \frac{10}{7.33} \quad | Gange$$

$$h = 1.36 \quad | Brøk$$



$$a = \sqrt{h^2 + (r^2 - r^1)^1}$$
  
 $a = \sqrt{1.36^2 + (2 - 1)^2} \mid Indsæt tal$   
 $a = \sqrt{1.36^2 + 1^2} \mid Minus$   
 $a = \sqrt{1.85 + 1} \mid Potens$   
 $a = \sqrt{2.85} \mid Plus$ 

5	

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$$a = 1.69$$
 | Kvrod

 $A_{keglestub} = \pi \cdot a \cdot (r1 + r2)$ 
 $A_{keglestub} = \pi \cdot 1.69 \cdot (1 + 2)$  | Indsæt tal

 $A_{keglestub} = \pi \cdot 1.69 \cdot 3$  | Plus

 $A_{keglestub} = 15.93$  | Gange

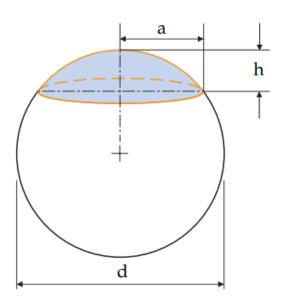
# Kugle kalot

$$h = 1.5$$

$$d = \frac{6V + 2\pi h^3}{3\pi h^2}$$

$$d = \frac{6 \cdot 10 + 2\pi \cdot 1.5^3}{3\pi \cdot 1.5^2}$$
 Indsæt tal
$$d = \frac{6 \cdot 10 + 2\pi \cdot 3.38}{3\pi \cdot 2.25}$$
 Potens
$$d = \frac{60 + 21.24}{21.21}$$
 Gange i alle led
$$d = \frac{81.24}{21.21}$$
 Plus
$$d = 3.83$$
 Brøk

$$A_{kalot} = \pi \cdot d \cdot h$$
  
 $A_{kalot} = \pi \cdot 3.83 \cdot 1.5 \mid Indsæt tal$   
 $A_{kalot} = 18.05 \mid Gange$ 



#### Rangeret efter overflade areal

- 1. Pyramide stub
- 2. Kasse
- 3. Cylinder
- 4. Pyramide
- 5. Kugle
- 6. Kegle
- 7. Kugle kalot
- 8. Keglestub