2. a) $V = \frac{1}{3} \cdot h \cdot \left(a_1^2 + \sqrt{a_1 \cdot a_2} + a_2 \right)$ $\quad | : \frac{1}{3} h$

$3 \frac{V}{h} = a_1 + \sqrt{a_1 \cdot a_2} + a_2$ $\quad | \char`\^2$

$9 \frac{V^2}{h^2} = a_1^2 + a_1 \cdot a_2 + a_2^2$ $\quad | - 9 \frac{V^2}{h^2}$

$0 = a_1^2 + a_1 \cdot a_2 + a_2 - 9 \frac{V^2}{h^2}$

$a_{1_{1/2}} = -\frac{a_2}{2} \pm \sqrt{\left(\frac{a_2}{2}\right)^2 - a_2 + 9 \frac{V^2}{h^2}}$

$a_{1_{1/2}} = -5\,cm \pm \sqrt{25\,cm^2 - 10\,cm + 4 \cdot 10^6}$

$a_1 = 1395,00375\,cm$

$a_{1_2} = -2005,00375\,cm$ $\quad \lightning$

$s = \sqrt{\left(\frac{a_1 \sqrt{2}}{2} - \frac{a_2 \sqrt{2}}{2}\right)^2 + h^2}$

$s = 1403,69\,cm$

$\frac{s}{h} = \sqrt{\left(\frac{a_1}{2}\right)^2 + \rule{1cm}{0.4pt}}$

$\frac{s}{h} = \sqrt{\left(\frac{a_1}{2} - \frac{a_2}{2}\right)^2 + h^2}$

$\frac{s}{h} = 992,61\,cm$

$A_0 = a_1^2 + a_2^2 + 4 \cdot \frac{1}{2} \cdot (a_1 + a_2) \cdot \frac{s}{h}$

$A_0 = 7360481\,cm^2$

$\beta = \cos^{-1}\left(\frac{a_1 - a_2}{2} : h\right)$

$\beta =$

$\beta = \tan^{-1}\left(\frac{h}{\frac{a_1 - a_2}{2}}\right)$

$\beta = 0,97^\circ$

$\alpha = \tan^{-1}\left(h : \frac{(a_1 - a_2)\sqrt{2}}{2}\right)$

$\alpha = 0,61^\circ$