

16)

$$s_6 = 2$$

$$b_1 = 20$$

$$b_2 = 39$$

$$b_3 = 42$$

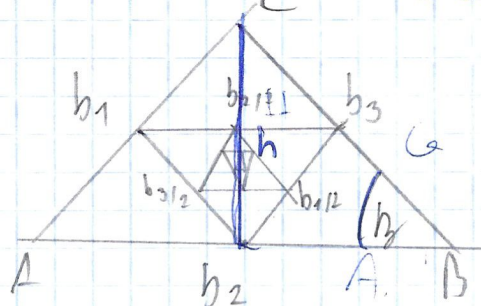
$$\cos(B) = \frac{20^2 - 42^2 - 39^2}{(-2 \cdot 42 \cdot 39)}$$

$$\underline{\underline{B = 28,07^\circ}}$$

$$u_1 = b_1 + b_2 + b_3 = \underline{\underline{96}} \quad q = \frac{q_6}{48} = \underline{\underline{0,5}}$$

$$u_2 = \frac{u_1}{2} = \underline{\underline{48}}$$

$$u_6 = 96 \cdot \frac{1 - 0,5^6}{1 - 0,5} = \underline{\underline{189}}$$



$$\begin{pmatrix} G/A & G/A \\ \uparrow & \uparrow \\ \sin & \cos \end{pmatrix} \tan$$

$$\sin(\cancel{B}) = \cancel{h} \cdot \frac{h}{b_3}$$

$$A_1 = \frac{h_{b_2} \cdot b_2}{2} = \frac{19,7631 \cdot 39}{2}$$

$$= 385,972$$

$$\underline{\underline{s_6 = 2}} \quad SA_6 = 385,972 \cdot \frac{1 - 0,25^6}{1 - 0,25}$$

$$= \underline{\underline{647,85}}$$

$$\underline{\underline{h = 42}}$$

$$h = \sin(28,07^\circ) \cdot 42$$

$$h = 19,7631$$

$$q_2 = \frac{83,4}{385,972} = \underline{\underline{0,25}}$$

$$A_2 = \frac{A_1}{q} = \frac{385,972}{0,25} = 83,4$$

Der ~~off~~ Gesamtlumfang ist 189 cm und die Gesamtfläche ist 647,85 cm² groß

$$S_3 = 39$$

$$S_3 = b_1^2 + b_2^2 + b_3^2 = 7410$$

$$S_3 = 39 = b_1 + b_2 + b_3$$

$$39 = b_1 \cdot \frac{1-q^3}{1-q}$$

$$741 = b_1^2 \cdot \frac{1-q}{1-q}$$

§ 2 : C

Sh) ~~$4n^2 + 4n + \frac{4}{n^2} + \dots$~~ $|n| > 1$ da ~~die~~ $\frac{4}{n^2}$ sonst gegen unendliche gehen würde.

~~$4n^4 + 4n + \frac{4}{n^2} + \dots$~~

Zod) 0.7135

$$0.7 + \frac{134}{9990}$$

~~7135~~
 ~~4990~~

~~$0.7 + \frac{134}{1000} + \frac{134}{10000} + \frac{134}{100000} + \dots$~~

$$q = \frac{1}{10^4}$$

$$0.7 + \frac{134}{999} \cdot \frac{1}{10} = \underline{\underline{0.7135}}$$