Aufgabe 3:

a) Freies Volumen zyünder: $\frac{4}{4}$ r²· π · ℓ Freies Kreissegment: $\frac{4}{2}$ r² (p-sinp)· ℓ

$$\frac{1}{2\pi} p^{\chi} \cdot \pi \cdot \chi = \frac{1}{2} p^{\chi} (p - \sin p) \cdot \chi$$

$$\Rightarrow \frac{2}{4} \Pi = (\lambda - \sin(\lambda)) = 2 \Rightarrow \sin(\lambda) - \lambda = -\frac{2}{4} \Pi$$

b) $\sin(\varphi) - \varphi = -0.5\pi$ => $\sin(\varphi) + 0.5\pi = \varphi$

- n Xn
- o 2.3
- 1 2.3165
- 2 2.3054
- 3 2.3129
- 4 2.3079
- s 2.3112
- 6 2.30296
- 7 2.3105
- 8 2.3095