```
Aufgabe 1)
                       1. 1x y. x = (1x. (1x.x))
                       2. \lambda_{\gamma,\gamma} \lambda_{x,x} = (\lambda_{\gamma,\gamma} (\lambda_{x,x}))
                      3. \lambda \times \times \lambda_{\gamma,\gamma} \times \times = (\lambda \times \times (\lambda_{\gamma,(\gamma \times)} \times))
                       4. (\(\lambda\) \(\text{z}\) \(\lambda\) 
             Actgale 2
                                                    1. 人x.(x y) => FV={y3
                                                                                                                                                                                                                                                                                                                               Das + - thirt list
                                                      2. y (\(\lambda\{\cdot\}\) => FV=\(\xi\)3
                                                                                                                                                                                                                                                                                                                                  GAZ
                                                    3. Ax y.x = FV=&3
                                                     4. Ay. (2 (22.4)) => FV= {23
Actabe 3
                              1. XXX = a xxx Nein, FV= 53 and Fvz= 5x3 &
                               7. X xx = X Xy Ja
                                  3. y(\lambda \times x) = a y(\lambda y, y) Ja
                                  (4. / \sqrt{(\times (\lambda_{4.4}))} = \lambda_{4} (\times (\lambda_{4.4})) in
                                   S(Xxx) (Xxx) = (Xxx) (Xxxx) Ja
                          Antype 4
                                                        1. (1xxxxxxx) [x:= (1xxxx)]
                                                                                 = (X x y . x y y)
                                                        2. ((/y,yx) (/y,y)) [x:= (/x,y)]
                                                                                   = (() o. a () x.y) () y.y)
                                                   3. (( \( \chi_{\begin{align*}
2. \chi_{\begin{align*}
3. \chi_{\begin{align*}
```

