

# Introduction to Program Synthesis (SS 25)

## Exercise - Proof as Programs and Verification

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# Exercise Sheet 2

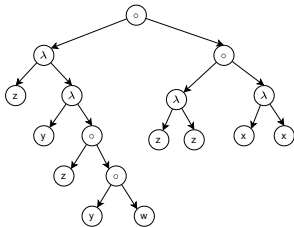
## Assignment 1

1.  $((\lambda z. \lambda y (z y w))((\lambda z. z)(\lambda x. x)))$
2.  $((\lambda z. \lambda y (z y w))(\lambda x. x))$
3.  $\lambda y ((\lambda x. x) y w)$
4.  $\lambda y (y w)$

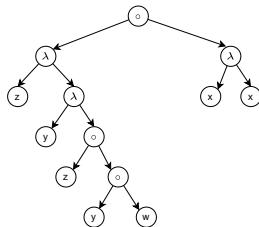
# Exercise Sheet 2

## Assignment 1

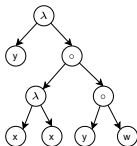
1)



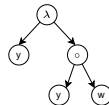
2)



3)



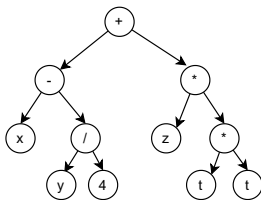
4)



## Exercise Sheet 2

### Assignment 2

►  $(x - (\frac{y}{4})) + (z * (t^2))$



## Exercise Sheet 2

Assignment 3

