

Aufgabe 7-4:

- a) (define mysq (lambda (x) (* x x)))
(mysq 8)
CONST, APP
→ (* 8 8)
PRIM
→ 64
- b) (define x 5)
(define f (lambda (y) (local [(define x 3)] (+ x y))))
(f 3)
CONST, APP
→ (local [(define x 3)] (+ x 3))
LOCAL
→ (define x_0 3)
(+ x_0 3)
PROG, CONST
→ (+ 3 3)
PRIM
→ 6
- c) (define addX (lambda (x)
 (local [(define y (lambda (y) (+ x y)))] y)))
((addX 5) 3)
CONST, APP, KONG
→ ((local [(define y (lambda (y) (+ 5 y)))] y) 3)
LOCAL
→ (define y_0 (lambda (y) (+ 5 y)))
(y_0 3)
PROG, CONST
→ ((lambda (y) (+ 5 y)) 3)
APP, KONG
→ (+ 5 3)
PRIM
→ 8