(\* Problem 7 Solution\*)

7. ( λt. λu. u t t) (λx. x) t

λu.u (λx.x) (λx.x)

t (λx.x) (λx.x)

Using Identity function:

(λx.x) t=t

(λx.x) t=t

Final Solution:

t

(\*Problem 8 Solution\*)

8. (λz. z z z) (λy. y y)

(λy.y y)(λy.y y)(λy.y y)

(λy.y y) is a self application function

This is an infinite recursion loop