

# HW7

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1. None - in inner-most abstraction  $y \neq f$  and original has it such that  $(\lambda y.\langle \dots \rangle)f$
2.  $\alpha$ -equivalent
3. None -  $y$ 's bound to wrong  $\lambda y$  abstraction
4.  $\alpha$ -convertible,  $\alpha$ -equivalent
5. None - the term  $(x\ w\ w)$  has the second  $w$  bound to the top-level abstraction.
6.  $\alpha\beta$ -equivalent