

Questão 5

① let $g \equiv \lambda n. \lambda y. \{n+y, n-y\}$
 in listcan $\underbrace{((3 \times 3) :: 4 :: \text{nil})}_{2_1 :: 2_2 :: 2' \equiv 2}$ of $(g \text{ } 00, \lambda h. \lambda t. g h (g (21). 2))$ A
 $\equiv \lambda g. \text{listcan } 2. \text{ of } (g \text{ } 00, \lambda h. \lambda t. g h (g (21). 2))$ A

→ listcan 2 of $(A \text{ } 00, \lambda h. \lambda t. A h (A 21). 2)$

→ listcan $9 :: 2_2 :: 2'$ of $(\dots, \lambda h. \lambda t. A h (A 21). 2)$

→ $(\lambda h. \lambda t. A h (A 21). 2) 9 (4 :: \text{nil})$

→ ² $A \ 9 \ (A 21). 2, \lambda h. \lambda t.$

→ $A \ 9 \ \{3, 1\}. 2$

→ $A \ 9 \ 1$

→ $\{10, 8\}$