1. (6 pts) OCaml Types and Type Inference
   a. (2 pts) Give the type of the following OCaml expression
      \[
      \text{fun } x \rightarrow (x, 2)
      \]
      \[
      \text{Type } =
      \]
   b. (2 pts) Write an OCaml expression with the following type
      \[
      \text{int } \rightarrow (\text{float } \times \text{int list})
      \]
      \[
      \text{Code } =
      \]
   c. (2 pts) Give the value of the following OCaml expression. If an error exists, describe the error.
      \[
      (\text{fun } z \rightarrow \text{fun } y \rightarrow z - y) \ 5 \ 3
      \]
      \[
      \text{Value } =
      \]