CMSC330 Practice Problems 9

1. Operational semantics
   Use operational semantics to determine the values of the following OCaml codes:
   a. 1
   b. 3 + 7
   c. 1 + (2 + 3)
   d. (fun x → 4) 5
   e. (fun x → x + 6) 7
   f. (fun x → (fun y → y + x)) 8 9
   g. let x = 5 in let y = 7 in x+y
   h. let x = let x = 5 in x+2 in x+4
   i. let f = fun x → x+5 in f 7
   j. let y = 5 in let f = fun x → x+y in let y = 6 in f 7 (for static scoping)
   k. let y = 5 in let f = fun x → x+y in let y = 6 in f 7 (for dynamic scoping)