

Homework #8

Draw type derivations of the following expressions:

a) `{{fun {x:num y:num} {+ x y}} 8}`

b) `{{if false {fun {x:num} x} {fun {y:num} 2}} 57}`

c) `{{fun {x:num y:(num->bool)} {y {+ x 17}}}
42 {fun {x: num} {> x 72}}}`

with the following additional rule:
$$\frac{\Gamma \vdash e_1 : \text{num} \quad \Gamma \vdash e_2 : \text{num}}{\Gamma \vdash \{> e_1 e_2\} : \text{bool}}$$

Due Wednesday, November 20 (before 2:30PM)