CS320 Programming Languages Homework #8

Due : 13 May 2019 before 2:30PM

	Student id: Name:
Draw	type derivations of the following expressions.
1.	{{fun {x:num y:num} {+ x y}} 8}
2.	${\{if false \{fun \{x:num\} x\} \{fun \{y:num\} 2\}\} 57\}}$
3.	{{fun {x:num y:(num->bool)} {y {+ x 17}}} 42 {fun {x:num} {> x 72}}} where the type of > is (num num -> bool)
1.	[x:num v:num] + x:num [x:num y:num] + y:num
	Ex:num y:num] f (+ x y s: num \$ + (fun s x:num y:num s+ x y ss: (num num + num) \$ + s fun s x:num y:num s+ x y ss ss: no type
2.	# false: bod Ex:num + x:num
	of sat false structures xs structures 255 575: num of sat false structures xs structures 255 575: num (xs num y: (num > 6 0 1)] + 17: num
[x:nun y	(num > bod)] + y: (num > bod) [x: num y: (num > bod)] + 1+ x 141: num (x: num y: (num > bod)] + x x 141: num
	[x:num y:(num+lod)] + [y s+ x 17sss: (num (num+lod)) + lool) [x:num] + strum [x:num] + hool) [x:num] + hool) [x:num] + (x:num] + (x:num] + hool)
	1 12 2 2 1 2 1 12: num of stem sk:nums (> x 7255: (num bod))
\$+ Stun 1x3 mon	+ ((from skinum y: (nom shoot)) s sy s+ x 19551 &z sfor skinums s> x +2555: Loot