Problem 1

Evaluate the following expressions by hand, and write their values in the spaces provided. If the expression will result in an error, say so.

a \((+ (* 3 7) (/ 6 3))\) → 23

b \((\text{cons} \ 'vassar \ (\text{cons} \ 'college \ '()))\) → 'vassar college

c \((\text{first} \ (\text{rest} \ '((a) \ (b))))\) → 'b

d \((\text{rest} \ '())\) → Error; \text{rest} cannot be applied to the empty list.

e '(\cos 10) → '(\cos 10)

Problem 2

Which of the following are special forms? Circle the letter(s).

a \((+ \ 1 \ 2)\): No

b \((\text{define} \ \text{one} \ 1)\): Yes

c \((\lambda (x) \ x)\): Yes

d \((\text{list} \ #t \ #f)\): No

e \((\text{quote} \ a)\): Yes

f \((\text{first} \ \text{lst})\): No