Homework #8 Grammar

Problem #1

a) <switch>, <request>, <polite>, <action>, <device>

Ewould like youto switch on the radio

- c) <switch> → [<request>] <action> <device>
 - →Please <action> <device>
 - →Please turn off <device>
 - →Please turn off the lights

Problem #2

a) <exp>

Cexp?

Cexp?

Cexp?

Chumber?

Chumber?

Chumber?

Chumber?

Coumber?

Coumb

Problem #3

- a) <pop>, <bop>, <boop>
- b) x, y, z, , (comma), (,), [,]

d) Is the following sentence legal (valid) in the language? [(x),[y,x]] Yes, based on deriving it using the parse tree below

((coops)) [coops) (coops]

((coops)) [coops) (coops]

((coops) (coops) (coops)