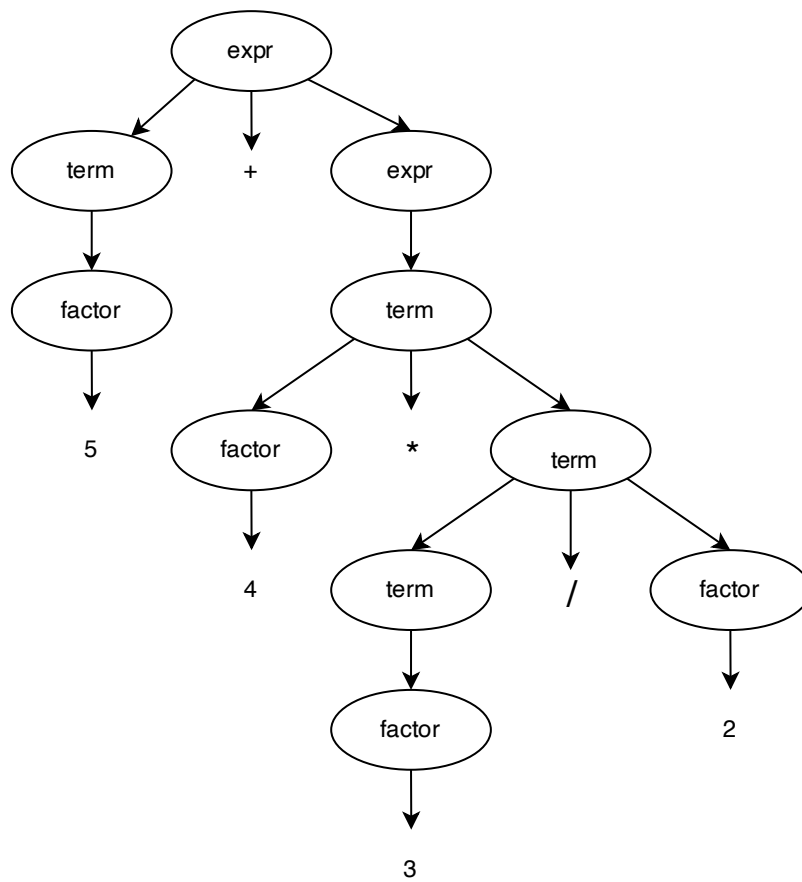## Question 2

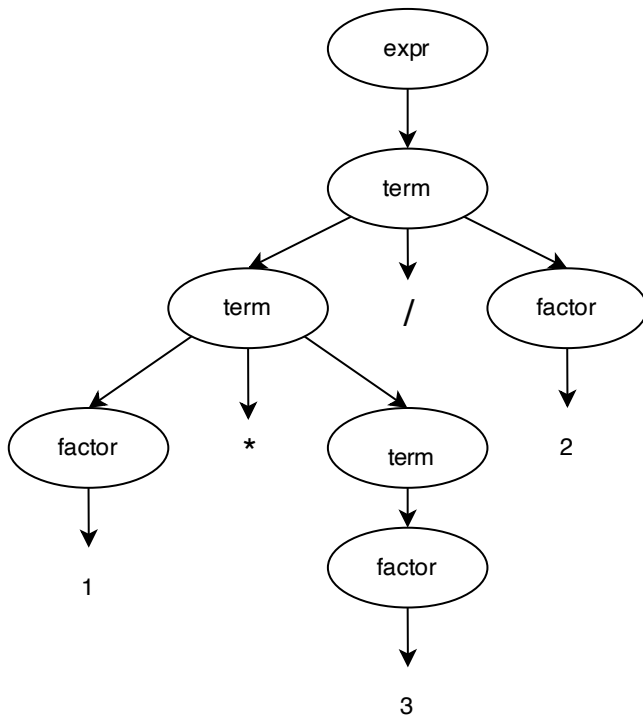**(b) Draw a parse tree for this sentence.**

(d) Is this grammar ambiguous? Justify your answer.

It's ambiguous.

Consider the string "1*3/2". Following are 2 different valid parse trees for the string from the CFG:

Parse Treen 1:

expr → term

term → term * term / factor

term → factor (1), term → factor (3), factor → 2

Parse Treen 2:

expr → term

term → factor * term

factor → 1, term → term / factor, term → factor (3), factor → 2