a	5	(6 XOR A)
F	F	F
F	T	T
T	F	T
T	T	F

a (b xor a)	a XOR (3 XORa)
FF	F
F	F
TF	(XOR undoes itself)

b) AND? Honesthy, this depends on "you con't have any pudding" Us. "meat => can ent pudding," so It could also be NAND

3.
$$E_o \rightarrow E + E \mid T$$

$$E \rightarrow E + E \mid T$$

$$E \rightarrow E + E \mid T$$

$$T \rightarrow T \times T \mid (E) \mid a$$

$$E \rightarrow E + E \mid T \times T \mid (E) \mid a$$

$$T \rightarrow T \times T \mid (E) \mid a$$

$$E \rightarrow E + E \mid T \times T \mid (E) \mid a$$

$$T \rightarrow T \times T \mid (E) \mid a$$

$$A \rightarrow EP$$

$$M \rightarrow T \times P \rightarrow +$$

$$X \rightarrow X$$

Y -> (

U E → E+E IT T → TxT | (E) | a

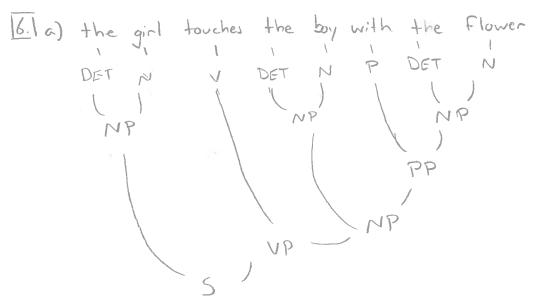
Consider the trivial string a \in G.

There is no way to pump a such that $xy'z \in$ G given y:=a.

: G is irregular. (er, nonregular)

(I literally mean the string a: f, not "some string a".)

5.



the girl touches the boy with the flower

DET N V DET N P DET N

NP

NP

NP

NP

NP

NP

NP

b) The girl could be touching a boy while the boy has a flower, or the girl could be using the flower to touch the boy.

NP VP

NP PP

NP PP

DET N V NP P NP

DET N

DET N

The girl sees the boy in the biroculars

[6.] d) add to 6: N -> AN A -> tall / pumple