

*3. Draw NFA for the following grammar G.

(Homework 4)

$G: A \rightarrow xyB,$
 $B \rightarrow yxC,$
 $C \rightarrow xB \mid yy$

Handwritten derivations for the grammar rules:

- For $A \rightarrow xyB$: $xy-B$, $yx-C$, xy , $xyxyxy$
- For $B \rightarrow yxC$: $xy-B$, $yx-C$, xB , $yx-C$, $x-B$, $yx-C$, xy , $xyxyxyxyxyxy$
- For $C \rightarrow xB$: $xy-B$, $yx-C$, xB , $yx-C$, xy , $xyxyxyxyxyxy$

NFA

