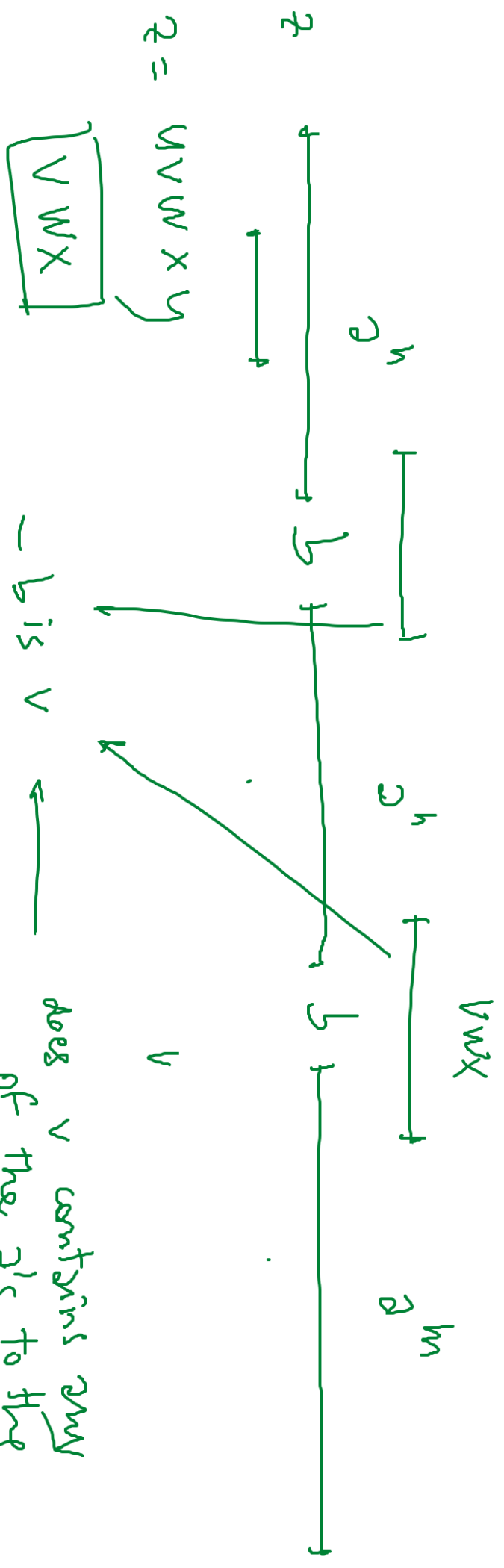


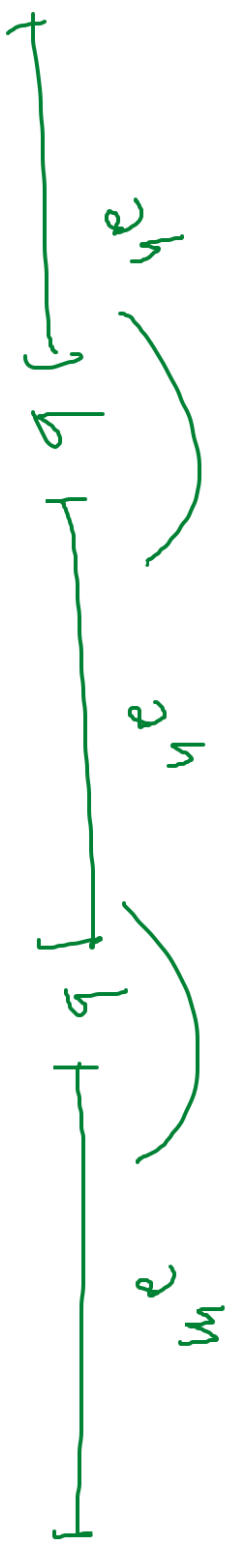
$$L = \{ a^n b a^n b a^m \mid n, m \geq 1, m \geq n \}$$



$$z = uvwx$$

- b is v
 - b is w
 - b is x
- does v contains any of the a's to the left of b ??

very complex discussion !!



if VWX falls across 2 block, symbol b cannot belong to V , nor to X

explanation:

if you have ' b ' in V , set $k=0$, and you destroy the structure of the language



b only in here

With the prev. observation, we are left with only few cases:

1. VWX in block 1 / 2 / 3 individually

2. V, X in blocks 1, 2 respectively

3. V, X in blocks 2, 3 "

