

Assignment 5, due 2/27/2020 in class

Find Context Free Grammars for the following languages:

1.  $\{a^n b^m \mid 0 \leq n < m\}$
2.  $\{a^i b^j a^k \mid j > 0, i = k\}$
3.  $\{a^i b^j a^k b^l \mid i = l, j \neq k, i, j, k, l \geq 0\}$