1. L5 = {aa \* w | w<{a,b,c}}
2. L6 = {a^n \* b^4m \* a^i| |w| < 0 and W is from {b} ,m,I,n >= 1 }
3. L7 = {a^n \* w | |w| > 0 and from abc{b},n>=0 }
4. L8 = {a^n \* w^2 | |w| > 0 and from abc{b},n>=0 }
5. R(L3) = {b^2m\* a^n, m>0 n >= 1}
6. L4 \* L3 = {b^2m \* a^n \* b^2k | k,m > 0, n > 1, }
7. L4 n R(L3) = {b^2m\* a^n, m>0 n >= 1}
8. Yes, because every word that starts with aa is also a word that starts with a, but not every word that starts with a starts with aa. For example aab and ab.
9. None of them
10. L1 and L2 because, if we take a W^n when w is from L1, for example it would be W = ab,

n = 3, ababab which a word from L1 and the same for L2.

1. None of them
2. aabbbb
3. L3:

A diagram of a molecule

Description automatically generated