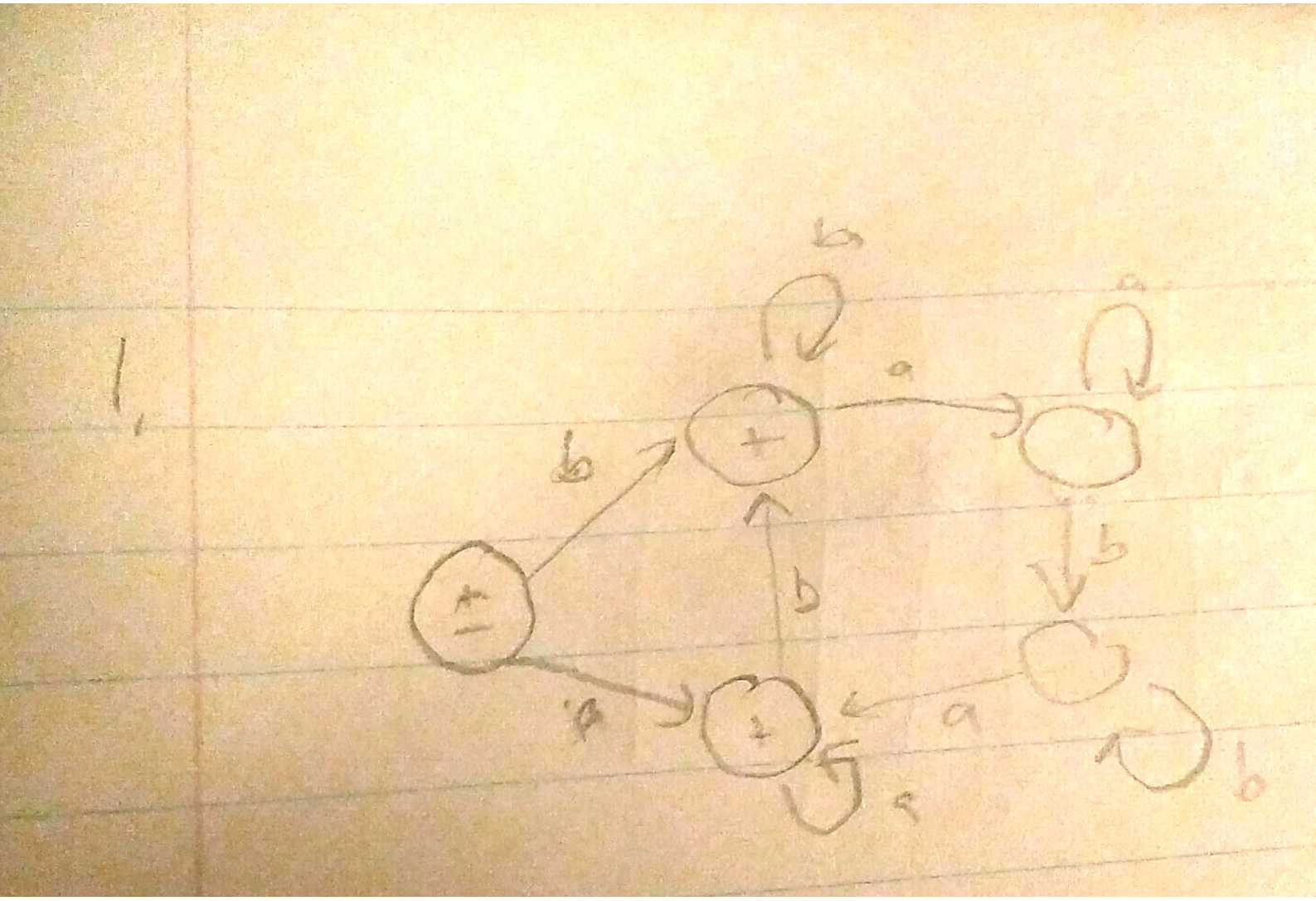
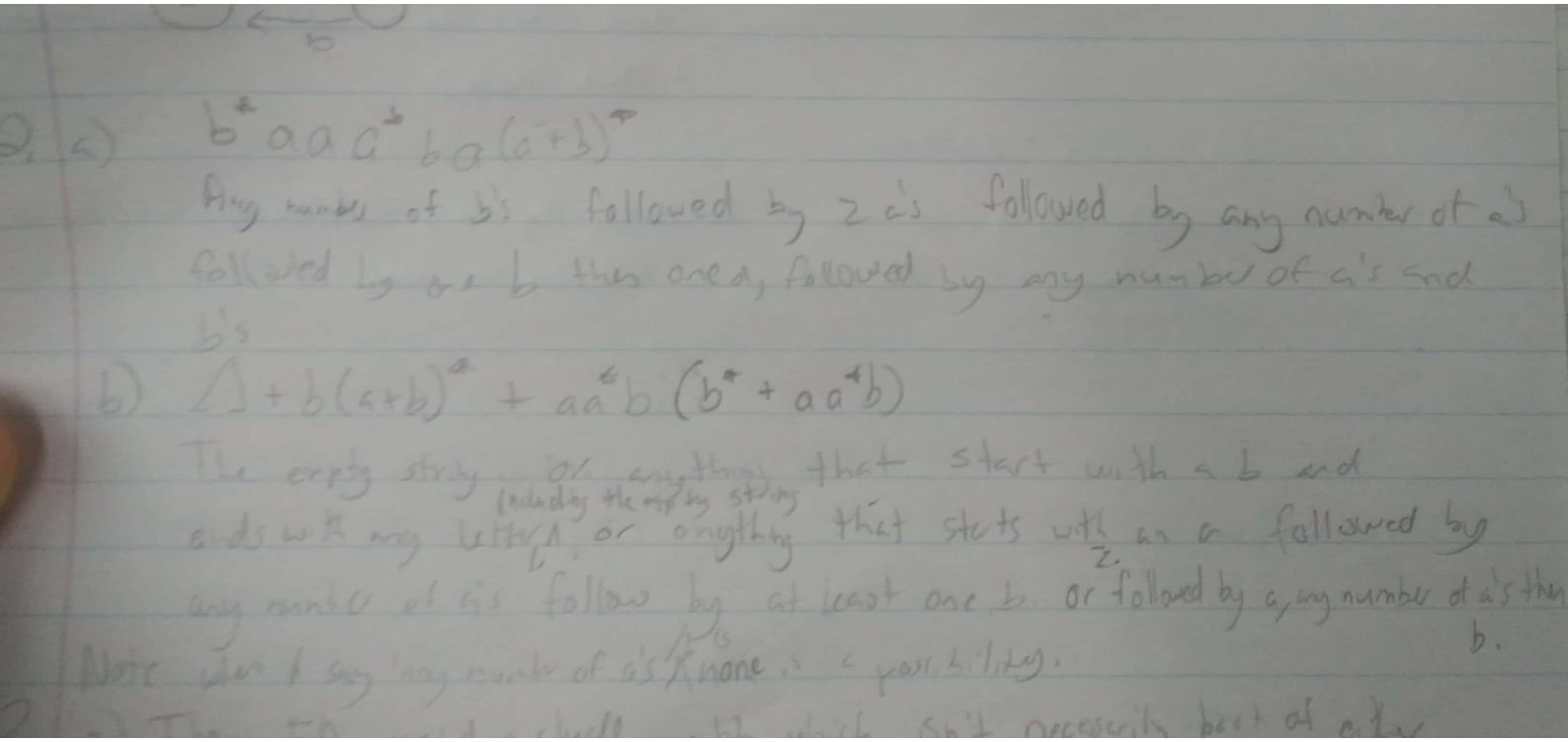




2. a) $b^* aaa^* ba(a+b)^*$

Any number of b's followed by 2 a's followed by any number of a's followed by one b then one a, followed by any number of a's and b's

b) $\Lambda + b(a+b)^* + aa^*b(b^* + aa^*b)$

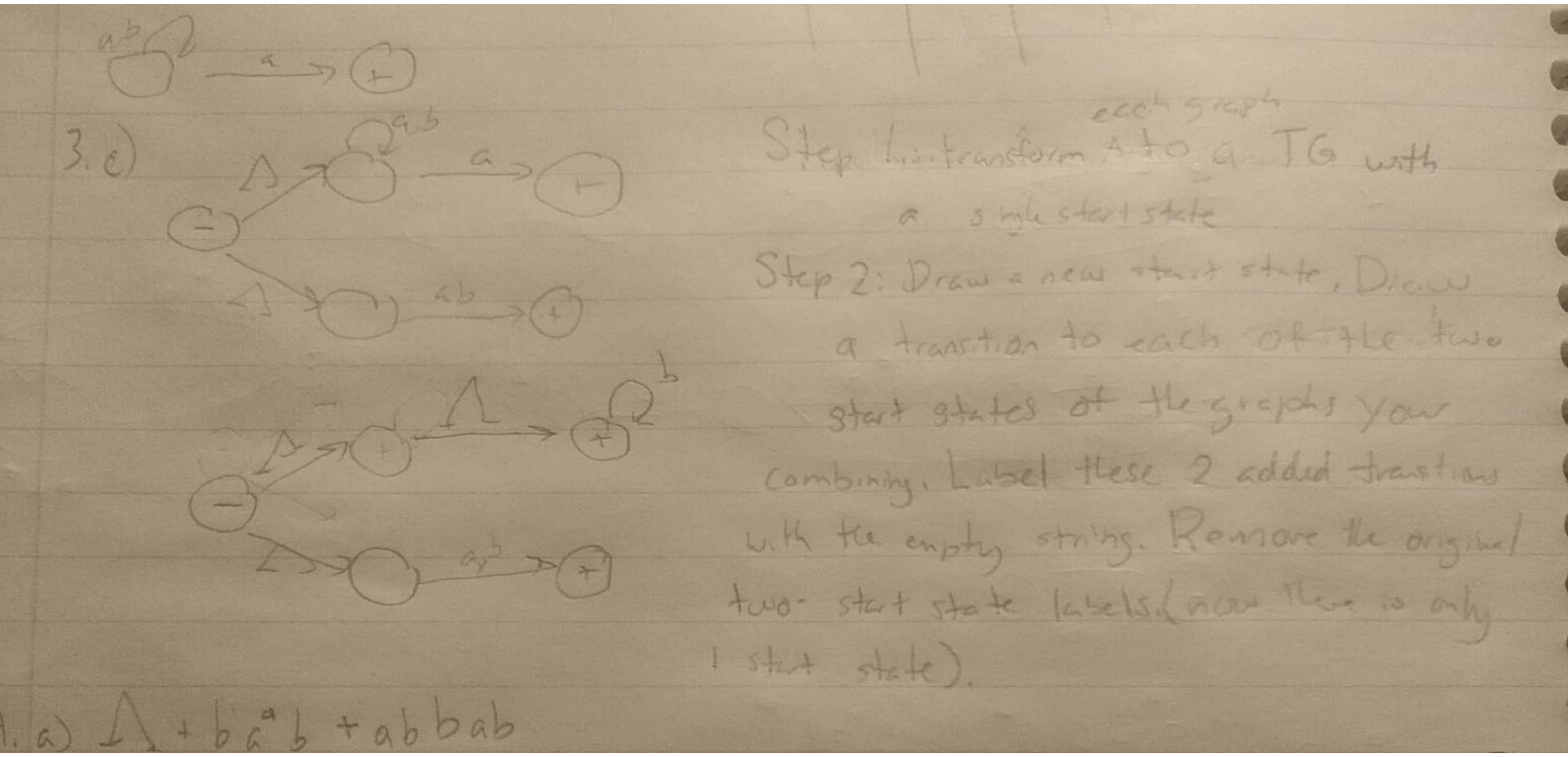
The empty string or anything that start with a b and ends with any letter (including the empty string) or anything that starts with an a followed by any number of a's follow by at least one b or followed by a, any number of a's then b.

Note: when I say 'any number of a's' is one possibility.

Note when I say "any number of a's" none [illegible]

3. a) Then FA would include abb which isn't necessarily part of either language

b) The FA would include aab which isn't necessarily part of either language



1. a) $\Lambda + ba^*b + abbab$

two start state labels (now there is only 1 start state).

4. a) $\Lambda + b\,a^*b + ab\,bab$

The empty string or a b followed by any number of a's followed by a b or ab followed by b followed by ab.