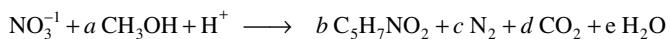


- 7.7.** Biological denitrification of nitrate-containing waste waters can be described by the following overall reaction.



- a. Determine a , b , c , d , and e , if $Y_{X/S} = 0.5 \text{ g X/g N}$.
- b. Determine the degree of reduction of bacteria and methanol.