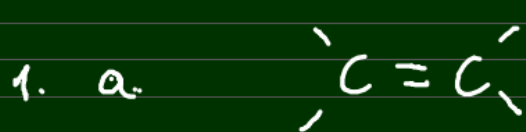
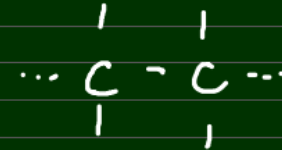
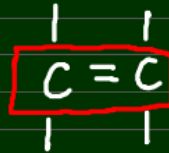


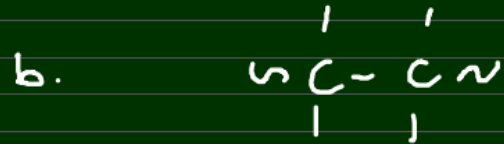
Hoofdstuk 13



monomeer

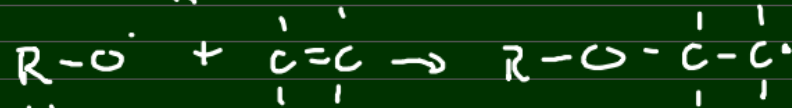
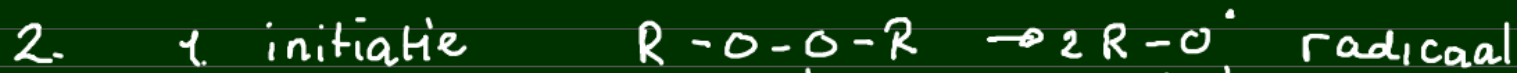


polymeer



c. polyadditie

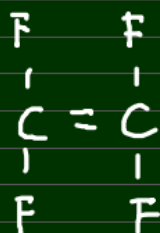
polycondensatie



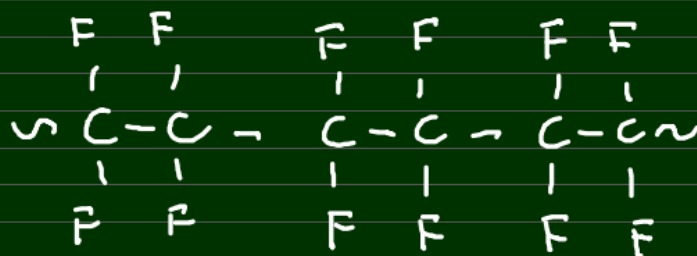
2. propagatie = langer worden

3. terminatie $\rightarrow$ geen nieuwe radicalen.

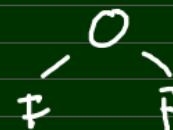
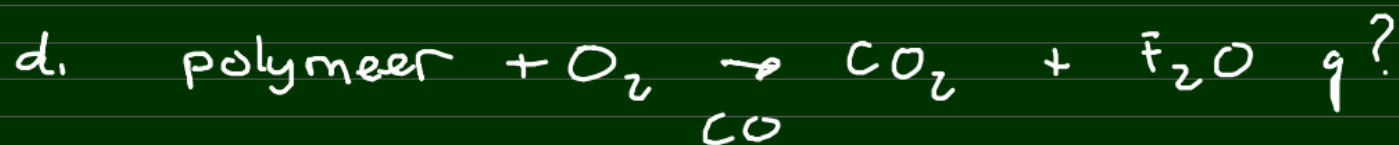
3 a.



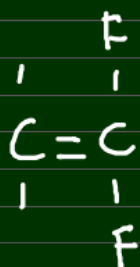
b.



c. moeilijk afbreekbaar $\rightarrow$ waterafstotend

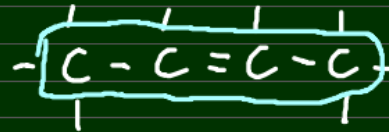
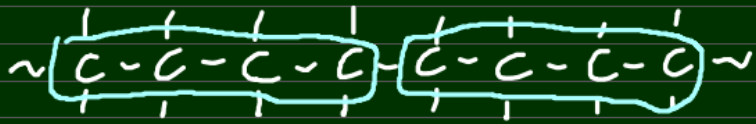


4.

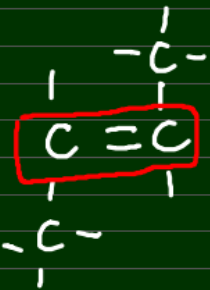


1,1-difluoretheen.

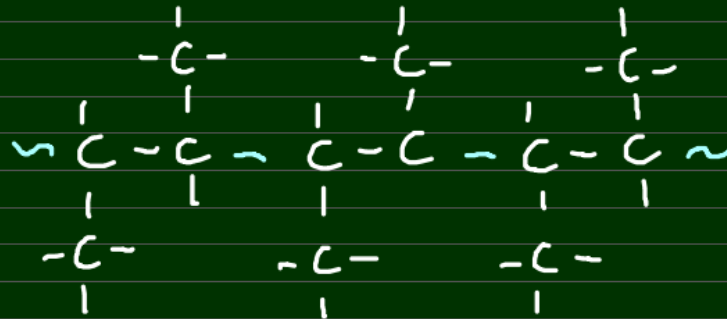
5.



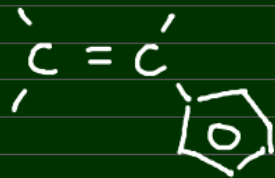
opg 7



wordt

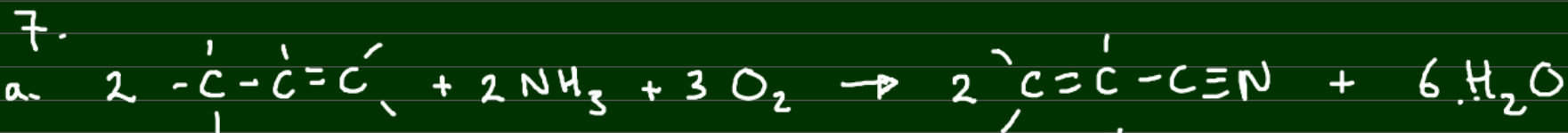


b a.

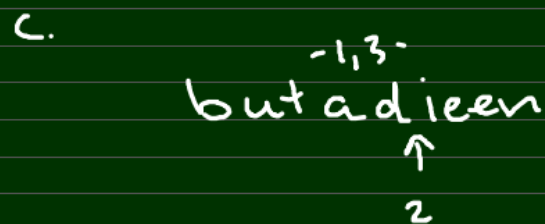
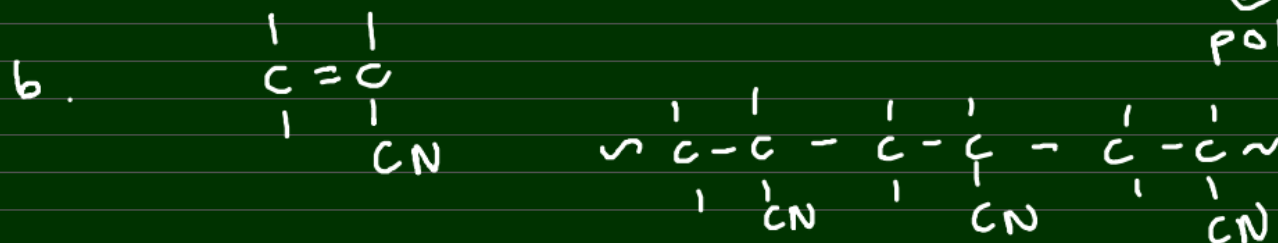


polystyreen:

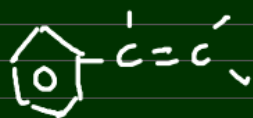
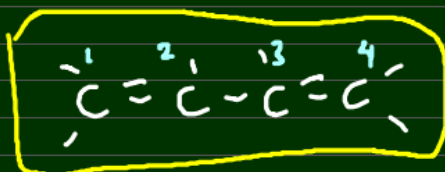




$\downarrow$
 polymeer

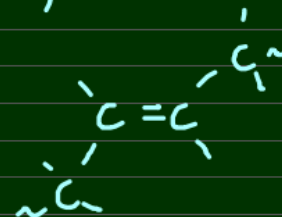
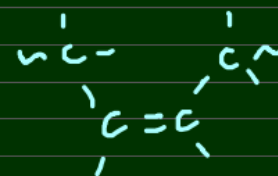
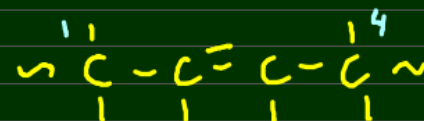


styreen



cis:

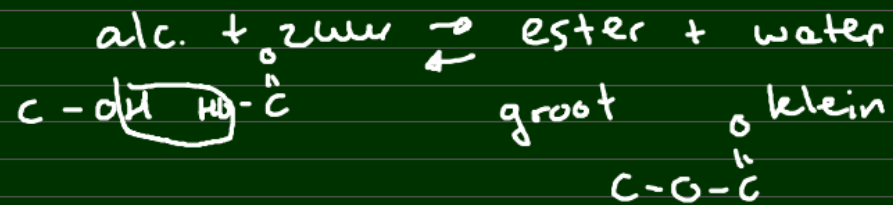
trans



blz 265

9. a. condensatiereactie: voorbeeld esterforming.

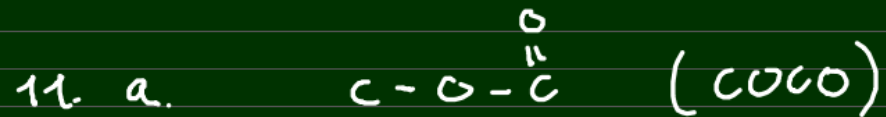
b. water



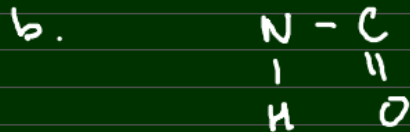
10. gewoon: $\sim \text{A}-\text{A}-\text{A}-\text{A}-\text{A}-\text{A} \sim$

copolymeer: $\sim \text{A}-\text{B}-\text{A}-\text{B} \sim$ of $\sim \text{A}-\text{A}-\text{A}-\text{B}-\text{A}-\text{A}-\text{B}-\text{A} \sim$

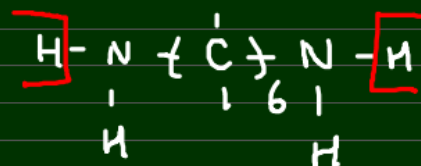
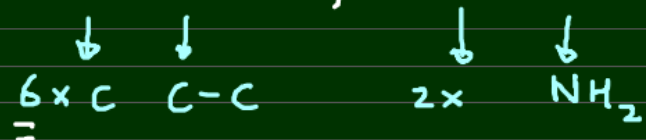
condensatie polymeer



§ 13.2 doornemen.



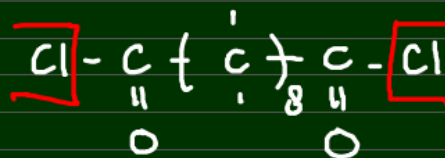
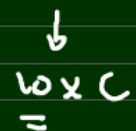
18. hexaan-1,6-diamine:



b.

HCl

decaandizuurchloride:



a.

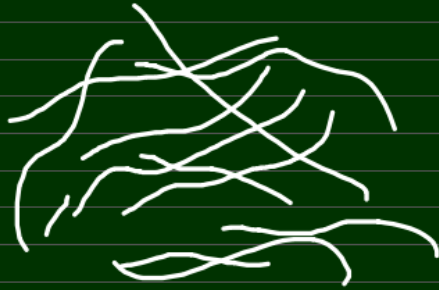


c.

20. a. thermo plast

warmte plastisch
zacht

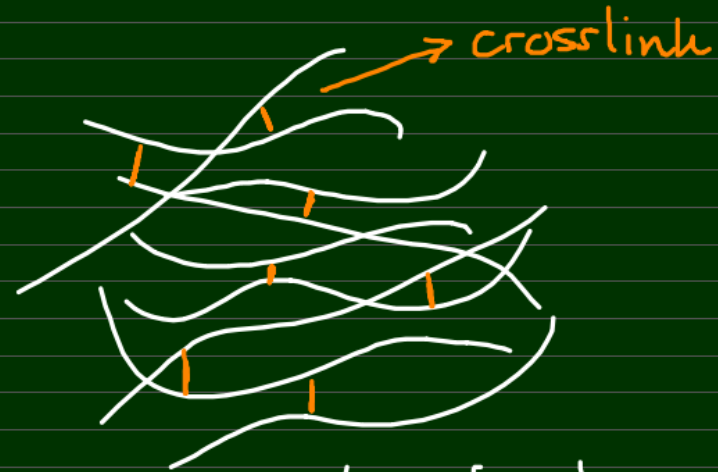
b.



ketenpolymeer



thermo harder
warmte hard



netwerkpolymeer



21. H-bruggen $\rightarrow$ OH / NH als zijgroep.

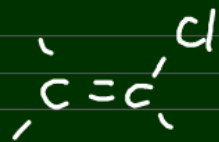
a. ketenlengte $\rightarrow$ bepaald door hoeveelheid initiator.
zijgroepen

altijd gemiddelde. $\rightarrow$ polymeer heeft geen smeltpunt

b. door crosslinks is er één bepaalde stevigheid.

enigszins aan te passen met weelmaker.

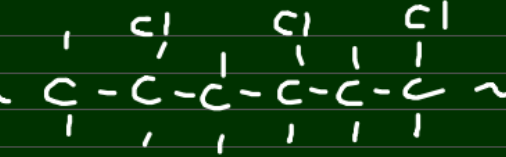
22



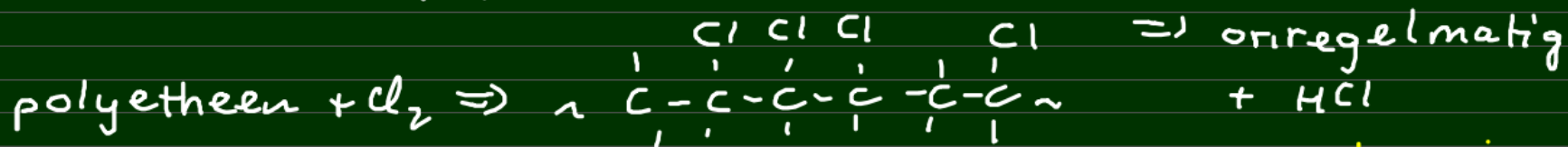
$\Rightarrow$



$\sim$



$\Rightarrow$ regelmatig
(PVC)



$\Rightarrow$ onregelmatig
+ HCl

meer Cl $\Rightarrow$ minder flexibel.

(H vervangen door Cl)

Examen 2023.

Tetrafluoretheen en hexafluorpropen vormen een copolymeer.

3) Teken een stevige polymeer met 2 eenheden per monomeer.

