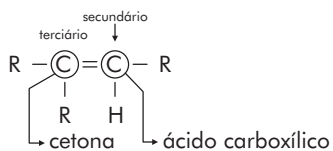
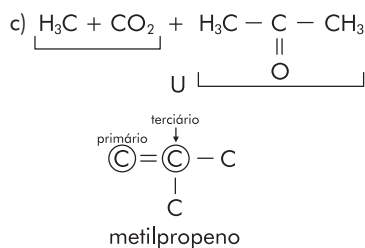
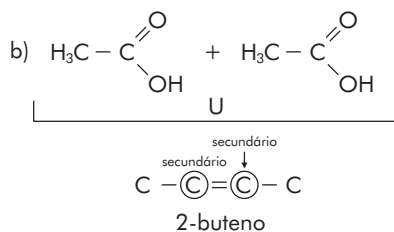
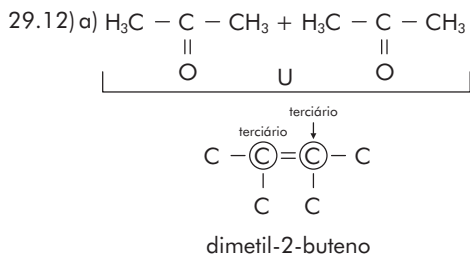
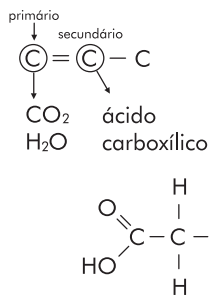


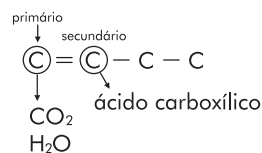
29.10) B



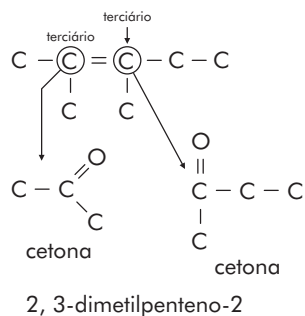
29.11) A



29.13) B

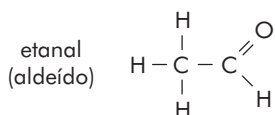
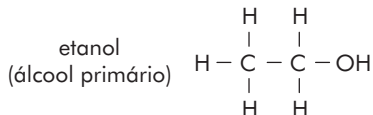
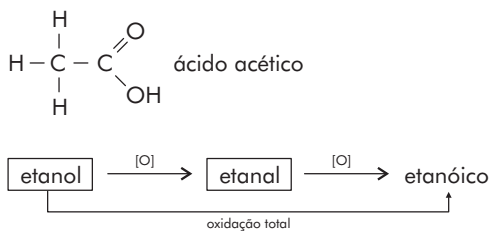


29.14) D



Aula 30

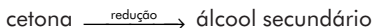
30.01) B



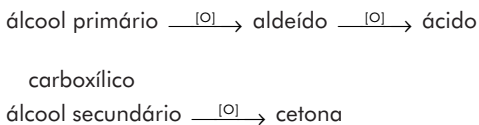
30.02) B



30.03) B



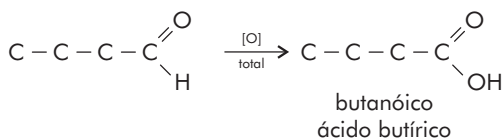
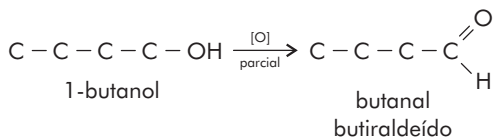
30.04) B



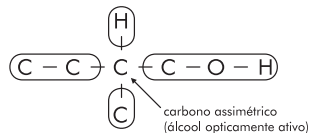
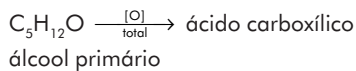
30.05) 96



30.06) C

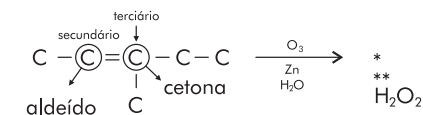
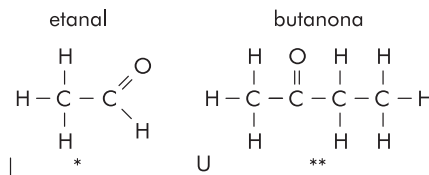


30.07) A

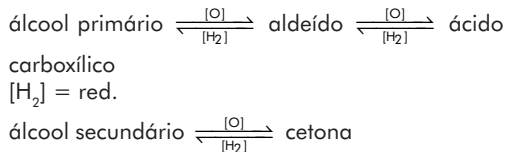


2-metil-1-butanol

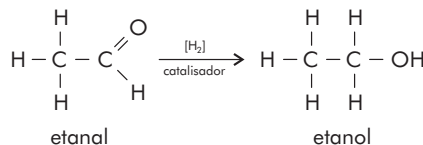
30.08) E



30.09) C



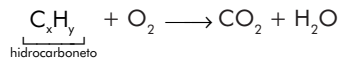
30.10) C



30.11) 26

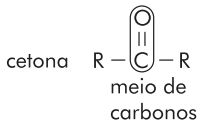
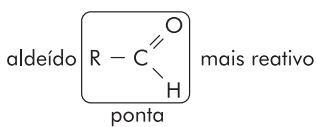
01. Falsa.

02. Verdadeira.

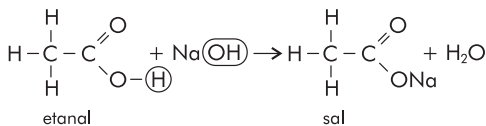


04. Falsa.

08. Verdadeira.

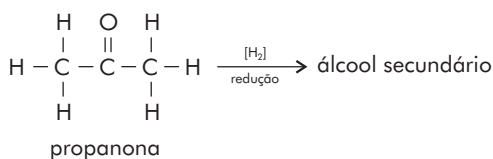


16. Verdadeira.

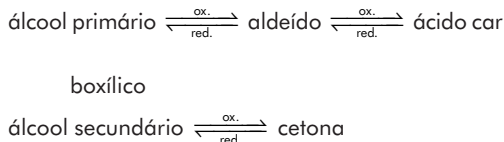


32. Falsa.

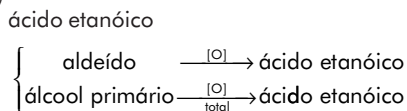
30.12) A



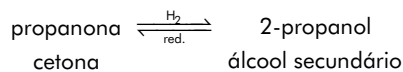
30.13) A



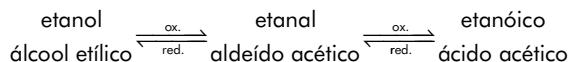
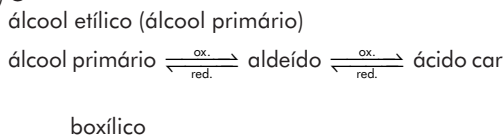
30.14) 12



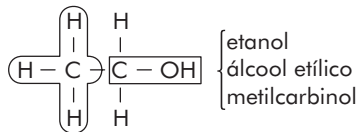
30.15) B



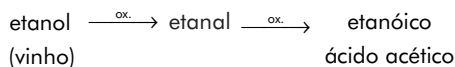
30.16) C



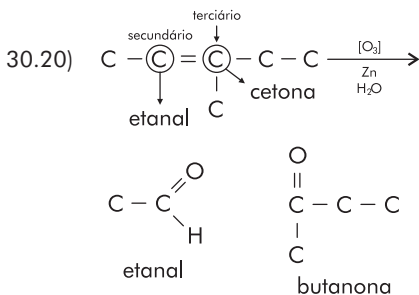
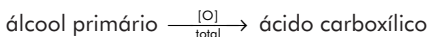
30.17) 28



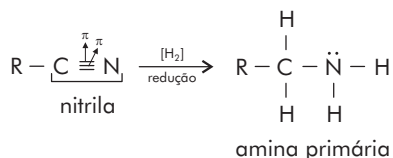
30.18) C



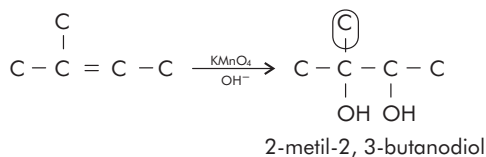
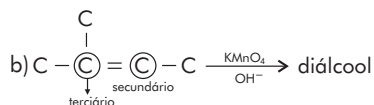
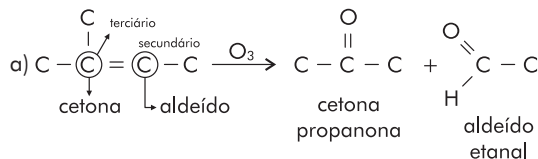
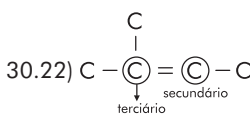
30.19) D

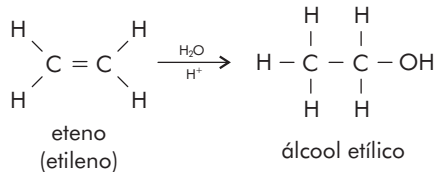
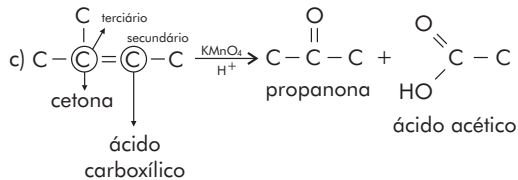


30.21) A

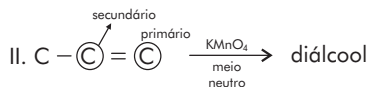
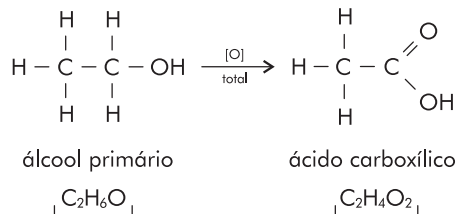
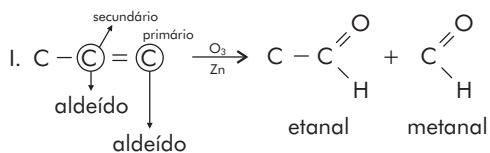


Obs.: Ligação π se rompe.

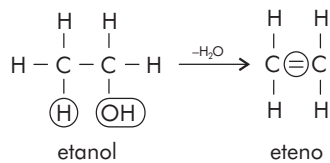
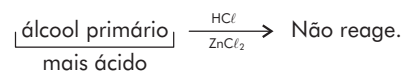
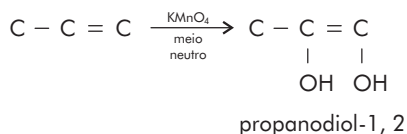




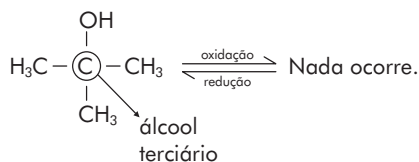
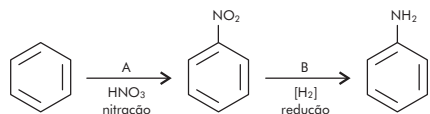
30.23) B



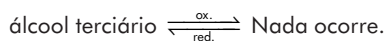
30.28) B



30.24) B



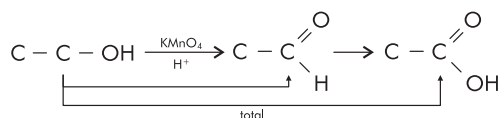
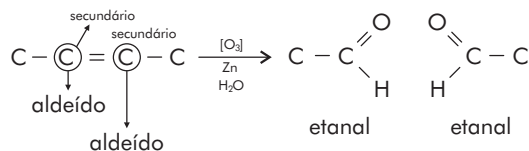
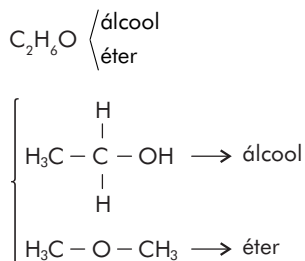
30.25) E



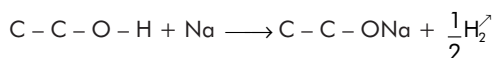
30.26) A

C_nH_{2n} $\left\{ \begin{array}{l} \text{alceno} \\ \text{ciclano} \end{array} \right.$
composto C_nH_{2n}
 $\left\{ \begin{array}{l} \text{I. Teste de Baeyer positivo.} \\ \text{II. Ozonólise produz um único aldeído.} \end{array} \right.$
Alceno

30.29) B

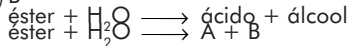


30.27) D

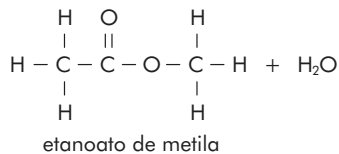
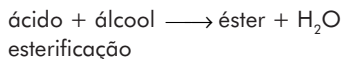


Aula 31

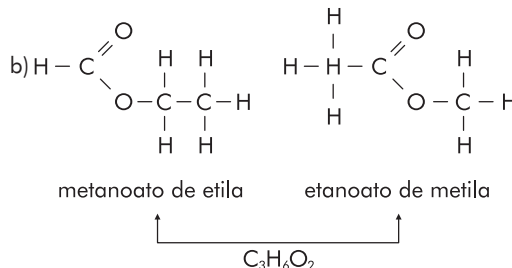
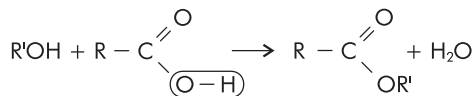
31.01) B



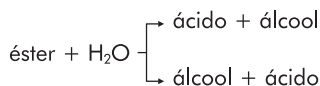
31.02) A



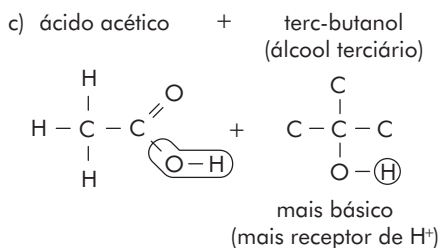
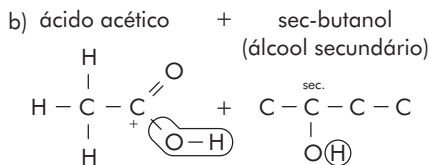
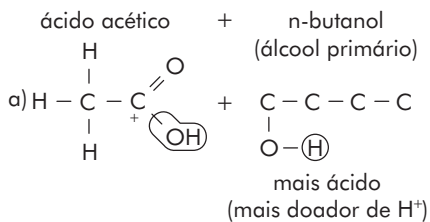
31.03) B



31.04) 42

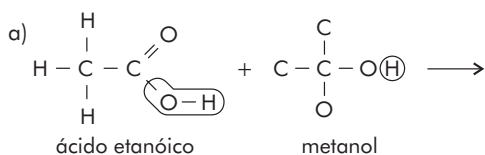


31.05) A

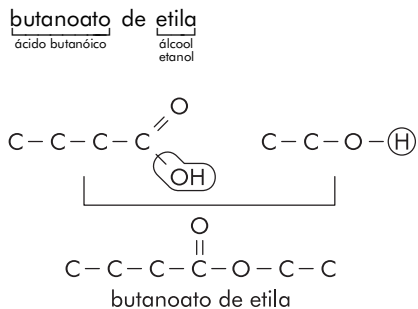


álcool primário > álcool secundário > álcool terciário

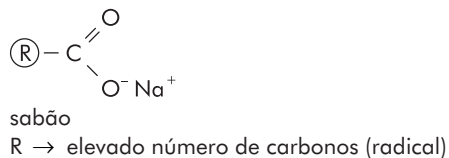
31.06) etanoato de metila
ácido álcool



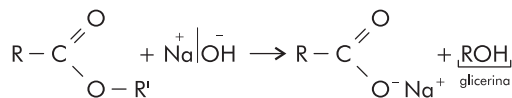
31.07) A



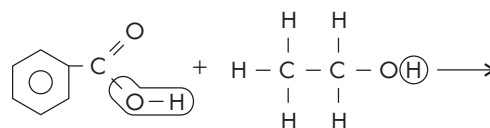
31.08) D

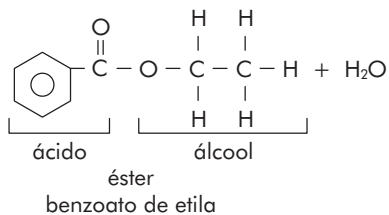


31.09) A

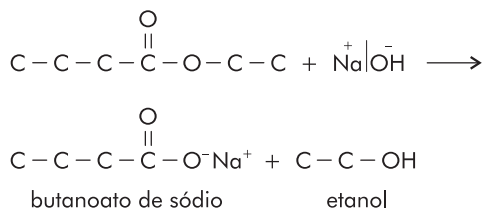


31.10) C

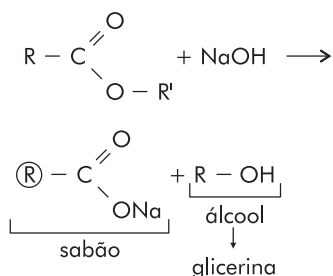




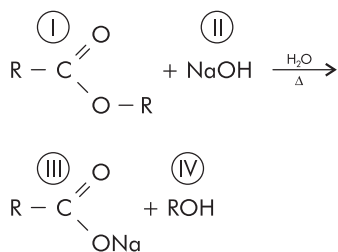
31.11) B



31.12) A



31.13) 63

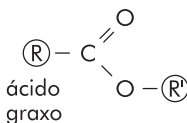


01. Verdadeira.
 02. Verdadeira. NaOH (base inorgânica forte)
 04. Verdadeira.
 08. Verdadeira.
 16. Verdadeira.
 32. Verdadeira.

64. Falsa. ácido + álcool \rightleftharpoons éster + H₂O

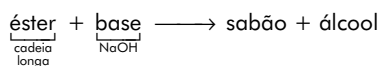
31.14) D

gorduras – óleos

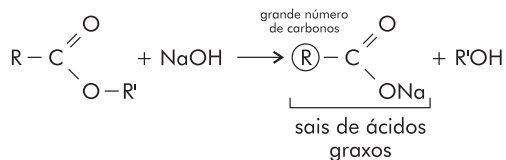


ésteres derivados de álcoois com número de carbono variável.

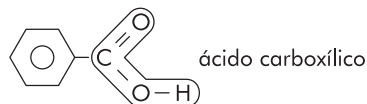
31.15) B



31.16) E

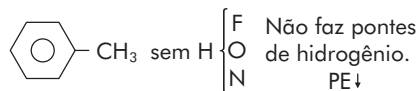
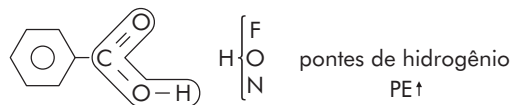
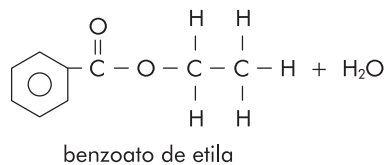
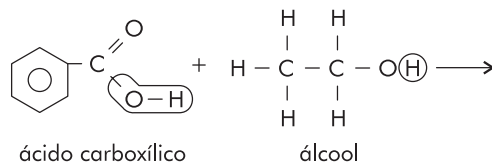


31.17) 22

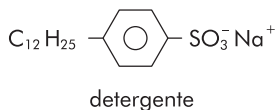
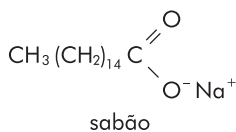


ácido carboxílico $\xrightarrow[\text{total}]{\text{red.}}$ álcool primário

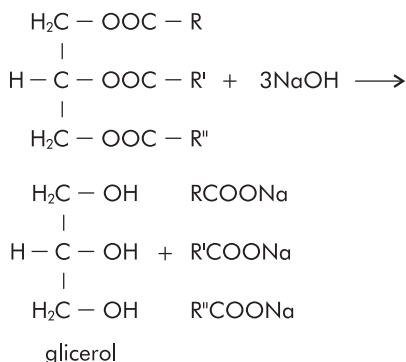
ácido carboxílico $\xrightarrow[\text{total}]{\text{red.}}$ álcool aromático (primário)



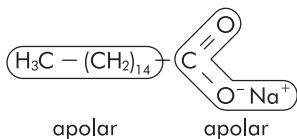
31.18) 45



01. Verdadeira.



02. Falsa.

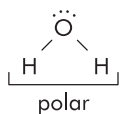


04. Verdadeira.

sabão } cadeia normal (biodegradável)
detergente }

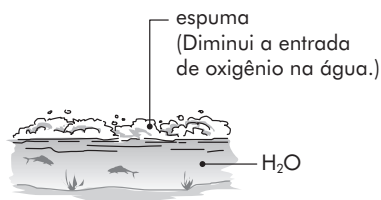
08. Verdadeira. detergente → cadeia ramificada (não é biodegradável).

16. Falsa.

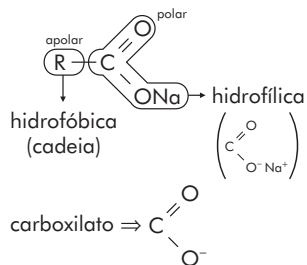


Polar dissolve polar.

32. Verdadeira.



31.19) A



Ca, Mg sais insolúveis
 $\xrightarrow{\text{H}_2\text{O dura}}$ ppt ↓

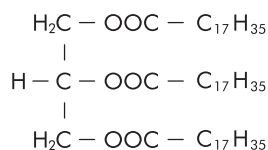
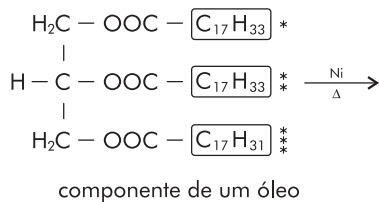
Obs.: precipitado (ppt)

31.20) B

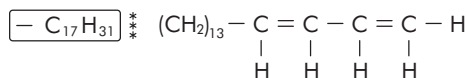
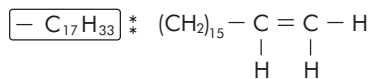
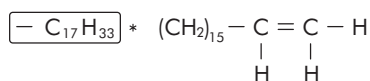
{ NaHCO₃ (sal)
óleo vegetal
H₂O

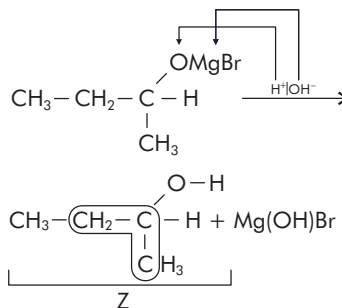
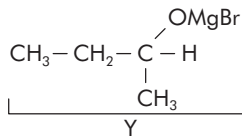
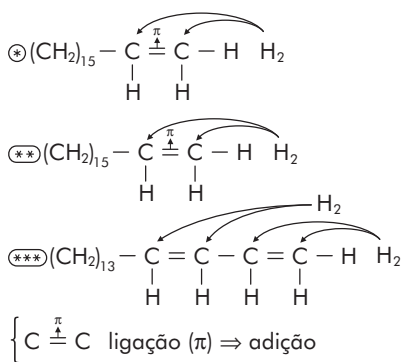
éster + base → sal + álcool
saponificação

31.21) C

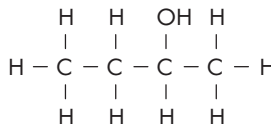


componente de uma gordura



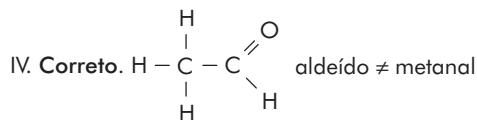
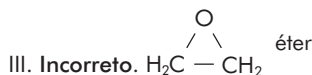
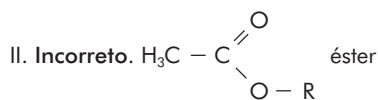
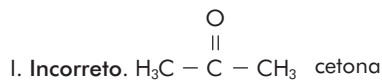


álcool secundário

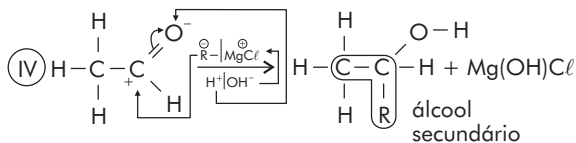
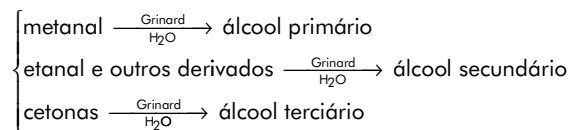


2-butanol

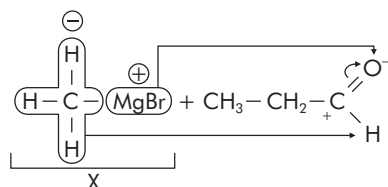
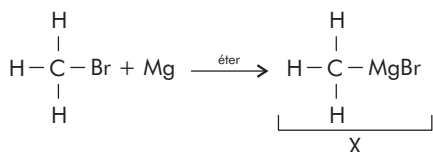
31.22) D



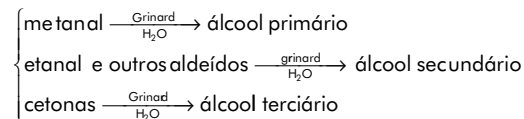
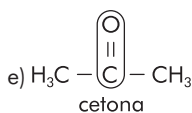
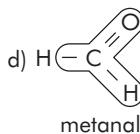
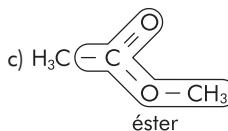
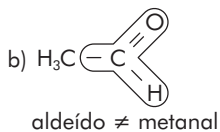
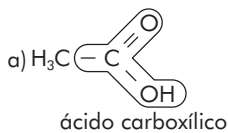
aldeído \neq metanal
Esquema:

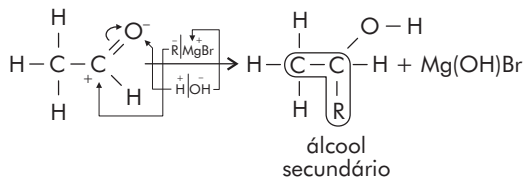


31.23) E

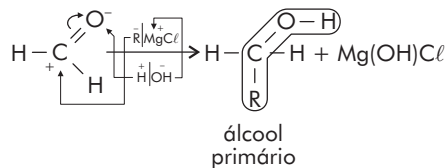


31.24) B

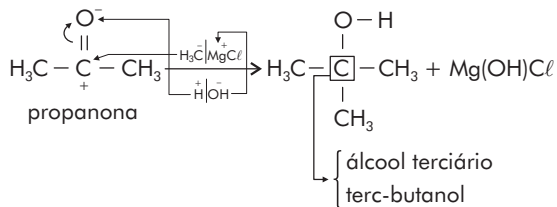




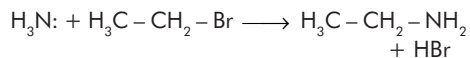
31.26) D
 álcool primário = ?
 Usar composto de Grignard.



31.25) E



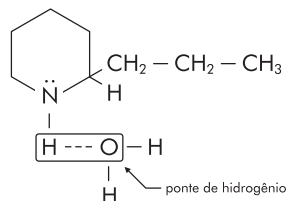
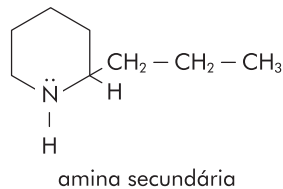
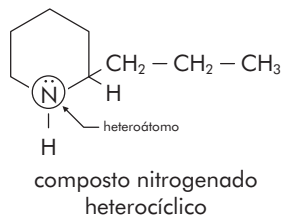
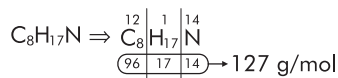
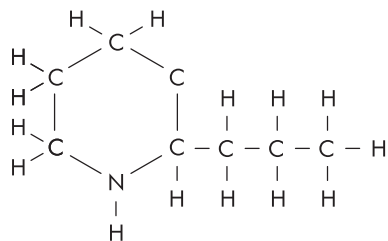
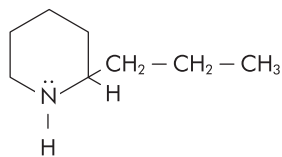
31.27) A



alquilação do amoníaco
 (reação de Hofmann)

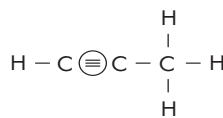
Aula 32

32.01) 25



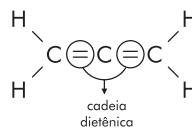
32.02) 35

Alcino (3C)



cadeia etínica propino

Alcadieno (3C)

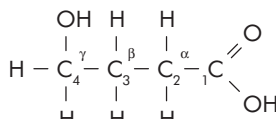


01. **Correta.** C₃H₄

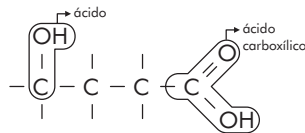
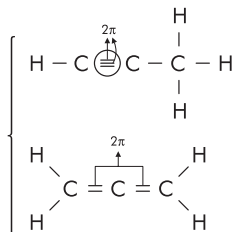
32.04) 28

02. **Correta.**

isômeros C₃H₄ $\left\{ \begin{array}{l} \text{etílica (=)} \\ \text{dietênica (==)} \end{array} \right.$



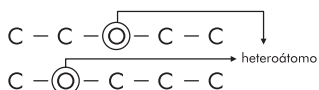
04. **Incorreta.**



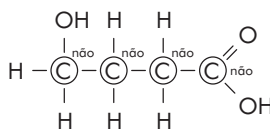
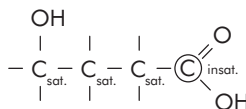
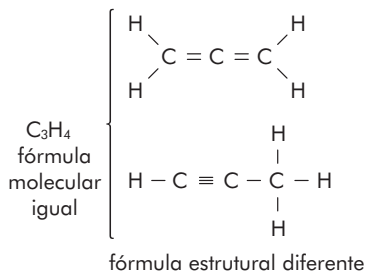
$\left\{ \begin{array}{l} \text{4-hidroxiбутанóico} \\ \gamma \text{ (gama)-hidroxiбутанóico} \end{array} \right.$

08. **Incorreta.** Ambos são hidrocarbonetos (C_xH_y).

16. **Incorreta.** Isômeros de compensação (metameria).

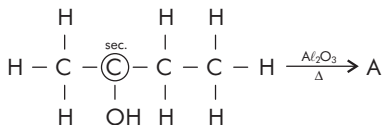


32. **Correta.**

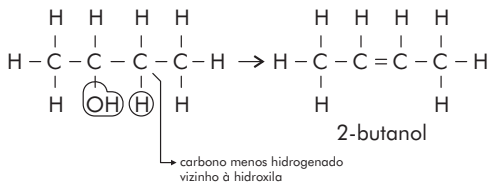
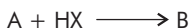


Não é carbono assimétrico.

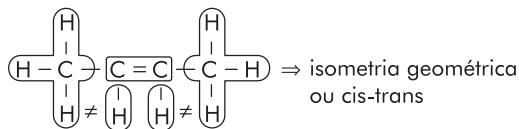
32.05) 54



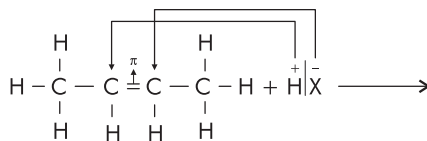
2-butanol



2-butanol

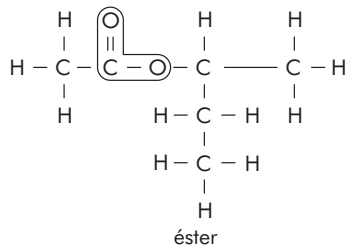
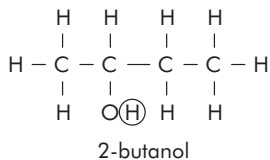
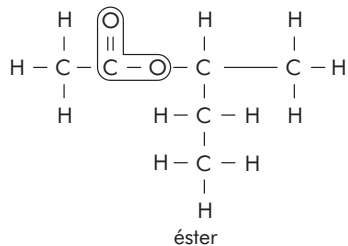
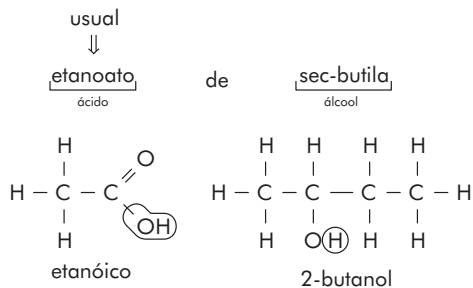


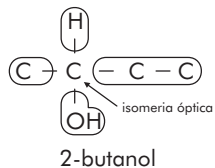
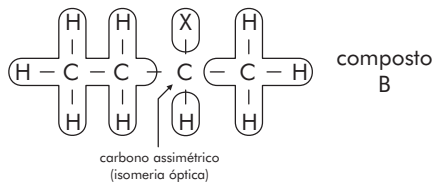
\Rightarrow isometria geométrica ou cis-trans



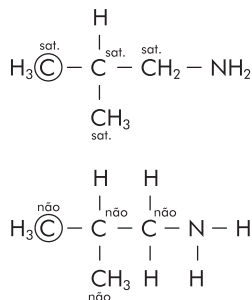
32.03) 16

Acetato de sec-butila

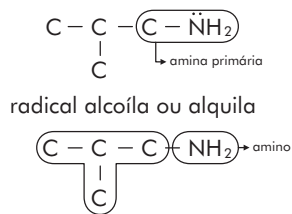




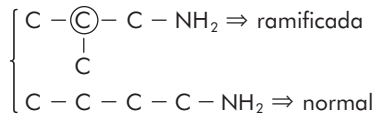
32.06) 78



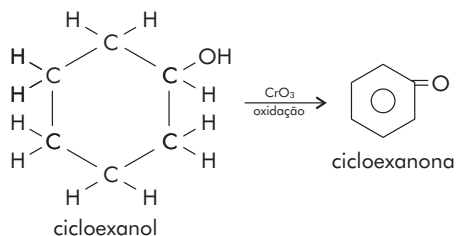
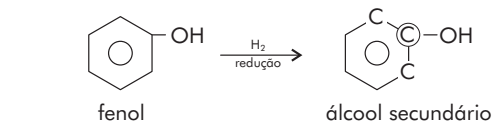
Não é carbono assimétrico.



isômero de cadeia

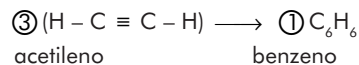


32.07) 03

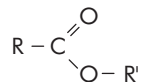


32.08) 42

01. **Incorreta.**

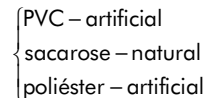


02. **Correta.**

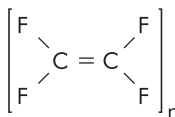


ésteres de ácido
carboxílicos
(= insaturados)
óleos

04. **Incorreta.**



08. **Correta.**

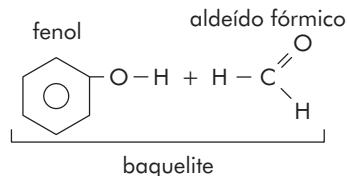


teflon
politetrafluoretileno

16. **Incorreta.** Vulcanização \Rightarrow reação do látex natural com quantidades controladas de enxofre (S).

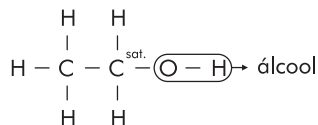
32. **Correta.**

baquelite \Rightarrow condensação



32.09) 48

01. **Falsa.**



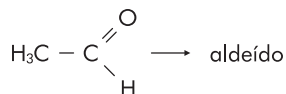
02. **Falsa.**



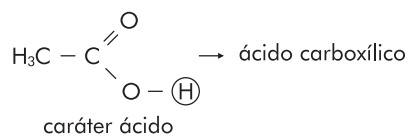
04. **Falsa.**

CH₄ \rightarrow hidrocarboneto

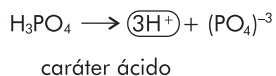
08. **Falsa.**



16. Verdadeira.

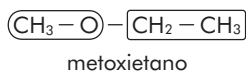


32. Verdadeira.



32.10) 92

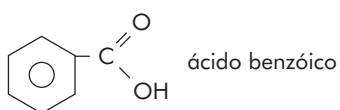
01. Incorreta.



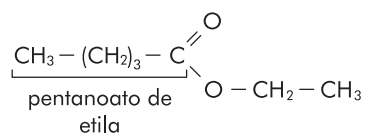
02. Incorreta.



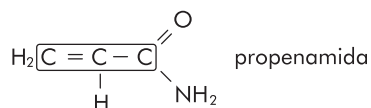
04. Correta.



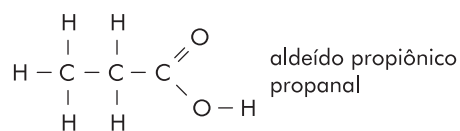
08. Correta.



16. Correta.



32. Incorreta.



64. Correta.

