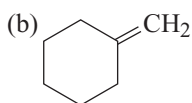
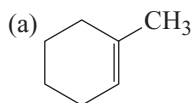
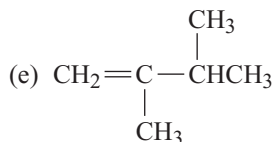
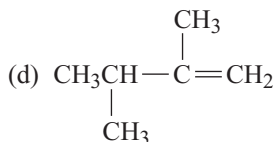
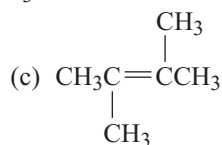
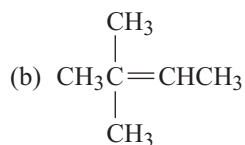
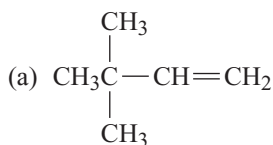
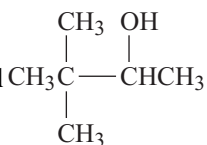


# 8 Quiz

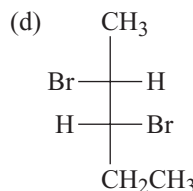
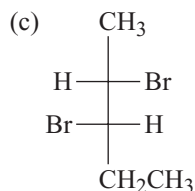
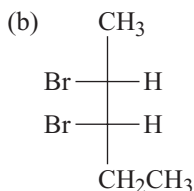
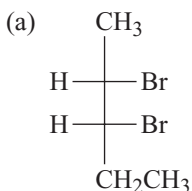
8.1 Un idrocarburo di formula molecolare  $C_7H_{12}$  per idrogenazione catalitica ( $H_2$  in eccesso/Pt) genera  $C_7H_{16}$ . L'idrocarburo di partenza addiziona bromo e mostra anche una banda di assorbimento IR a  $3300\text{ cm}^{-1}$ . Quale delle seguenti è una struttura plausibile per l'idrocarburo?



8.2 Indicate il prodotto principale della disidratazione dell'alcol

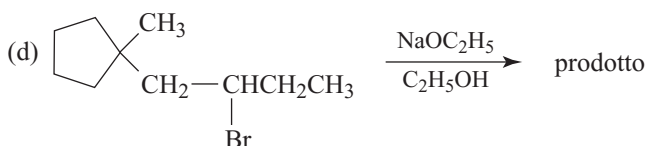
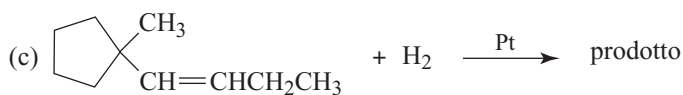
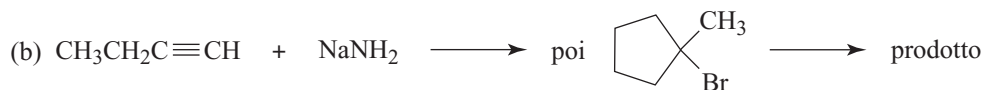
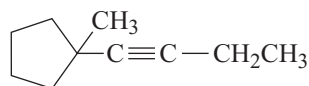


8.3 Indicate il prodotto principale della reazione del *cis*-2-pentene con bromo.

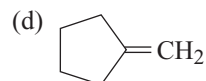
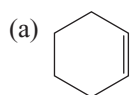
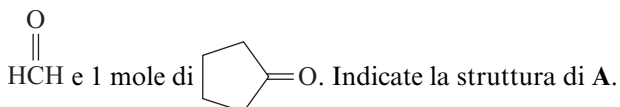


(e) Una miscela racemica di (c) e (d)

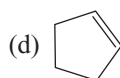
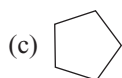
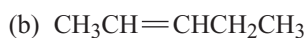
**8.4** Quale delle seguenti sequenze di reazioni è più indicata per la sintesi del composto



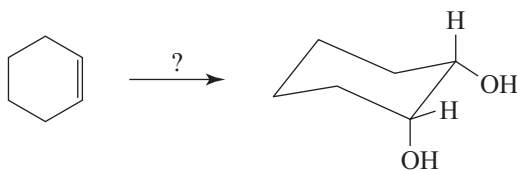
**8.5** Il composto **A**, di formula C<sub>6</sub>H<sub>10</sub>, reagisce con H<sub>2</sub>/Pt in eccesso per formare il prodotto di formula C<sub>6</sub>H<sub>12</sub>, che non decolora Br<sub>2</sub>/CCl<sub>4</sub>. Il composto **A** non mostra assorbimenti IR nella regione 3200–3400 cm<sup>-1</sup>. L'ozonolisi di **A** genera 1 mole di



**8.6** Il composto **B** (C<sub>5</sub>H<sub>10</sub>) non si discioglie a freddo in H<sub>2</sub>SO<sub>4</sub> concentrato. Quale dei seguenti composti è **B**?



8.7 Quale sequenza di reazioni converte il cicloesene nel *cis*-1,2-cicloesandiolo?



(a)  $\text{H}_2\text{O}_2$

(b) (1)  $\text{O}_3$  (2)  $\text{Zn}/\text{HOAc}$

(c) (1)  $\text{OsO}_4$  (2)  $\text{NaHSO}_3/\text{H}_2\text{O}$

(d) (1)  $\text{RC}(=\text{O})\text{OOH}$  (2)  $\text{H}_3\text{O}^+/\text{H}_2\text{O}$

(e) più di una delle precedenti

8.8 Quale delle seguenti sequenze di reazioni costituisce la sintesi migliore del composto  $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CH}$ ? (Si assuma che le quantità dei reagenti siano sufficienti per eseguire le reazioni indicate.)

