Úkol 5: Odpovězte na otázky a odpovědi zdůvodněte:

- Jsou *meso*-sloučeniny opticky aktivní? **Nejsou, nejsou chirální, nejsou tvořeny neztotožnitelnými zrcadlovými obrazy.**
- Je racemát opticky aktivní? **Není, obsahuje stejný podíl obou enantiomerů. Ty oba stáčí rovinu lineárně polarizovaného světla o stejný úhel, ale na opačnou stranu. Výsledně tedy racemát nemá optickou aktivitu.**

Úkol 6: Kde je to možné, určete absolutní konfiguraci:

<table>
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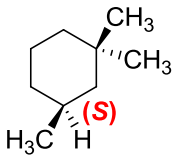
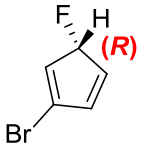
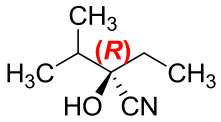
<td>  </td>
<td>  </td>
<td>  </td>
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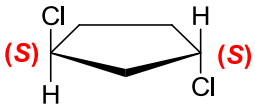
<td colspan="2">  </td>
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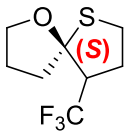
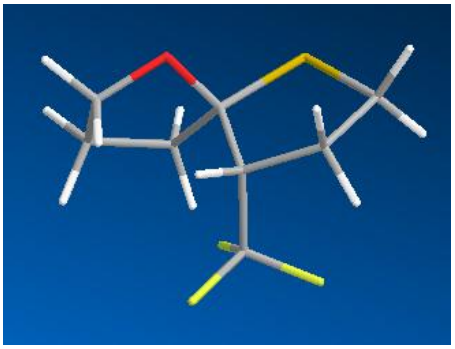
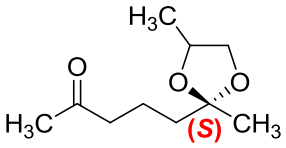
<td>  </td>
<td>  </td>
<td>  </td>
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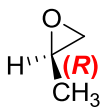
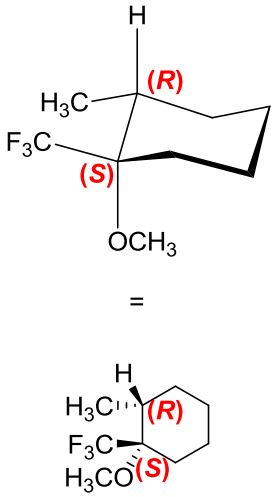
<td>  </td>
<td>  </td>
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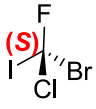
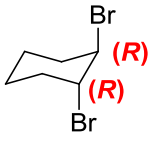
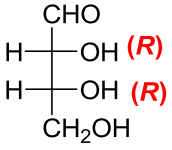
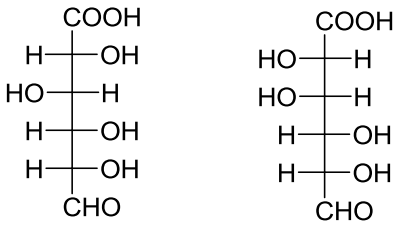
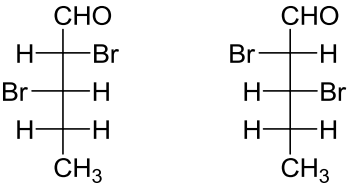
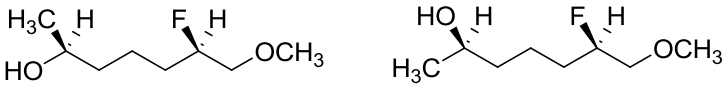
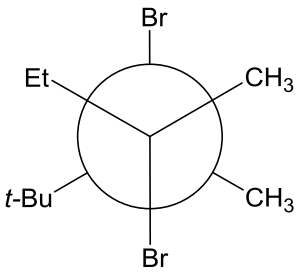
<td>  </td>
<td>  </td>
<td>  </td>
</tr>
</table>

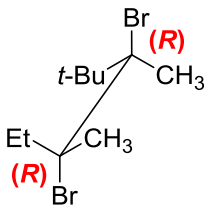
Úkol 7: V jakém vztahu jsou následující dvojice?

	
***E* a *Z* izomery; diastereomery**	**enantiomery**
	
diastereomery	**enantiomery**
	
diastereomery	**konstituční izomery**

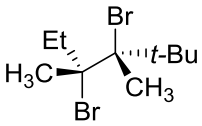
Úkol 8: Kde je to možné, určete absolutní konfiguraci:

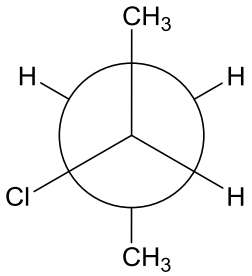


Newmanova projekce

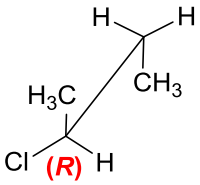


perspektivní vzorec

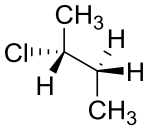




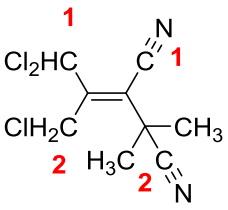
Newmanova projekce



perspektivní vzorec



Úkol 9: **Určete konfiguraci uvedených (hypotetických) molekul:**



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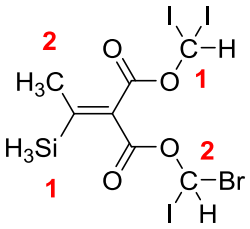
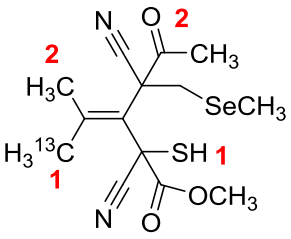


(*E*)



(*Z*)