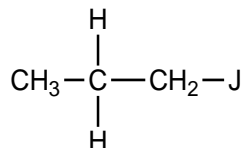
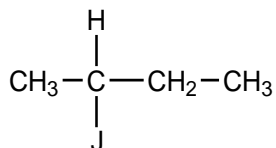


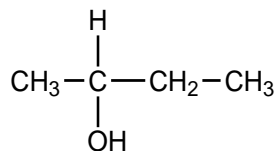
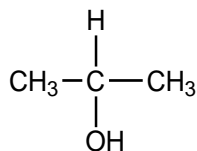
## Задания по теме «Оптическая изомерия»

I. В приведенных ниже соединениях отметьте асимметрические центры. Для хиральных соединений приведите проекционные формулы энантиомеров и обозначьте их по D,L- номенклатуре.

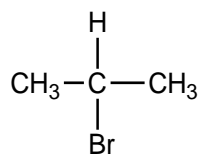
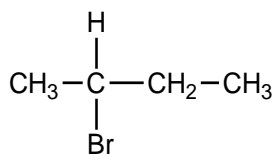
1)



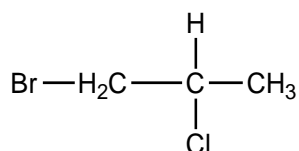
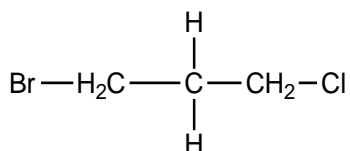
2)



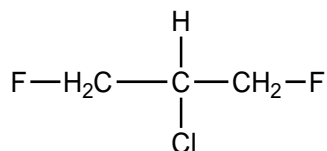
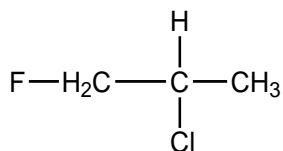
3)



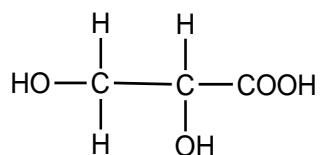
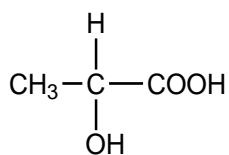
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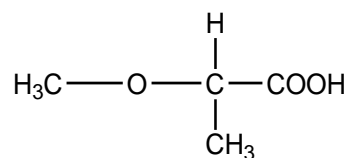
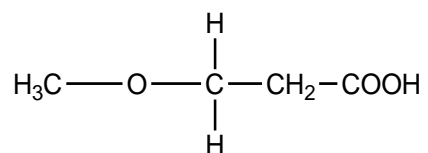
5)



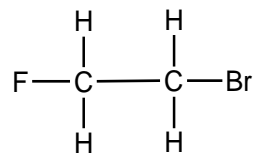
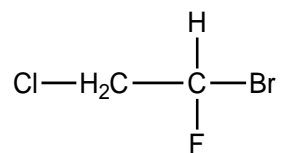
6)



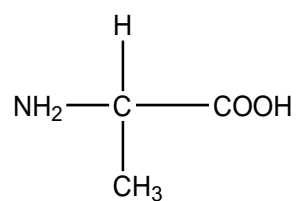
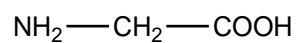
7)



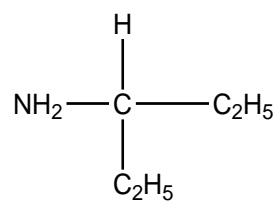
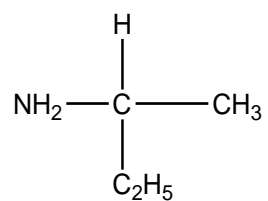
8)



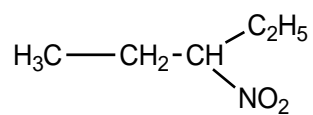
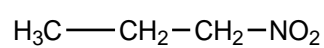
9)



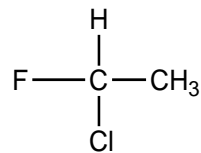
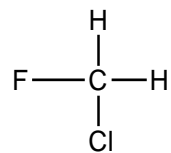
10)



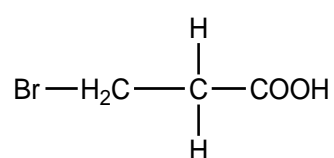
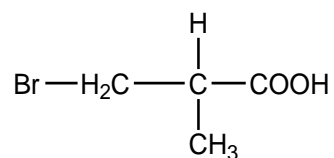
11)



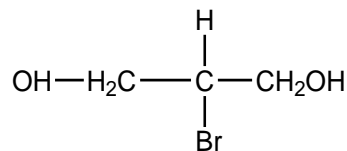
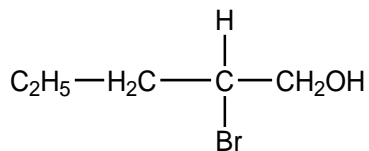
12)



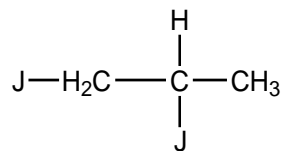
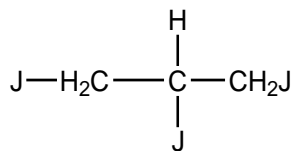
13)



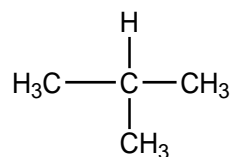
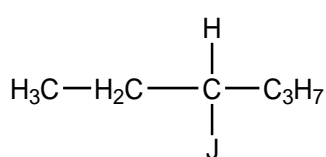
14)



15)



16)

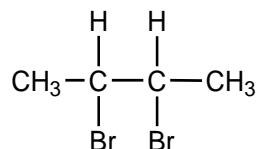


II. В приведенных ниже соединениях найдите и укажите хиральные центры. Изобразите проекционные формулы Фишера для стереоизомеров. Отметьте среди них:

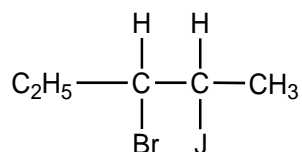
1. энантиомеры
2. диастереомеры
3. рацематы
4. мезоформы

Обозначьте стереоизомеры по D,L-номенклатуре, укажите treo- и эритро-формы.

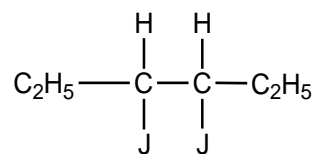
1)



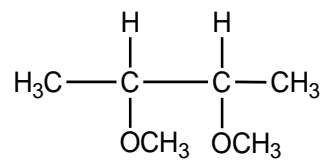
2)



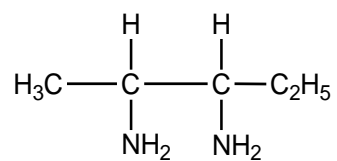
3)



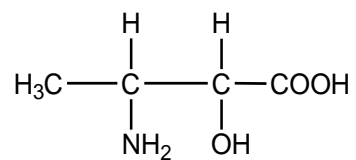
4)



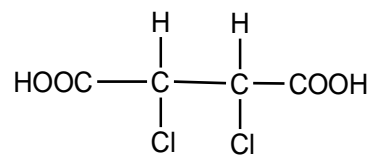
5)



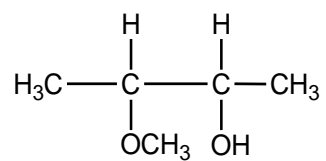
6)



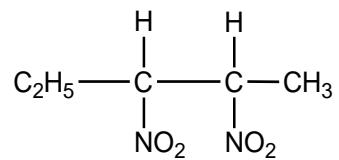
7)



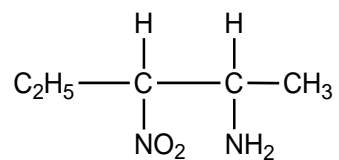
8)



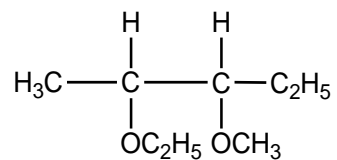
9)



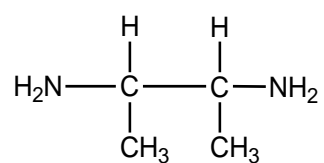
10)



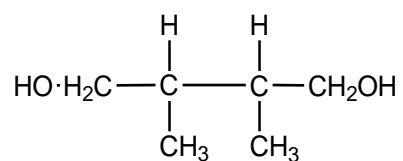
11)



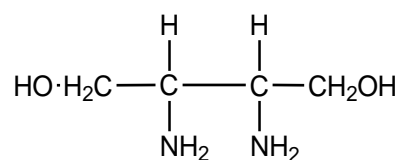
12)



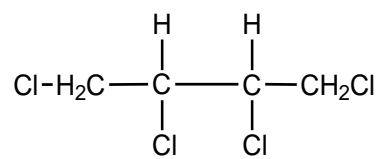
13)



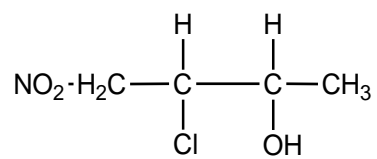
14)



15)

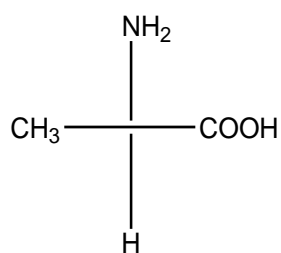
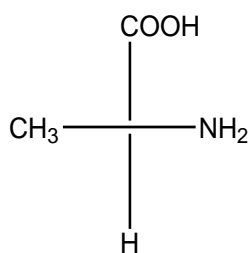


16)

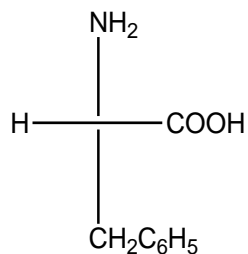
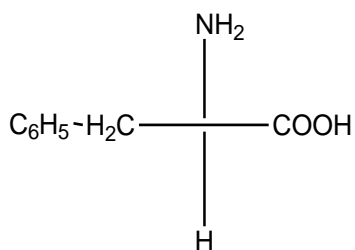


III. Какая из двух проекционных формул соответствует:

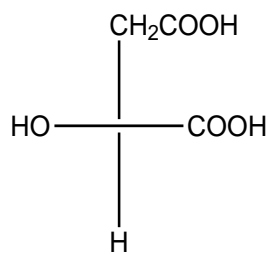
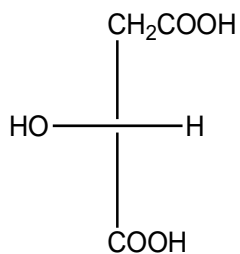
1) D-аланину



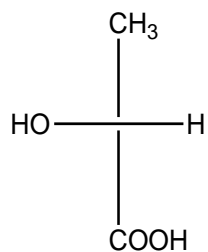
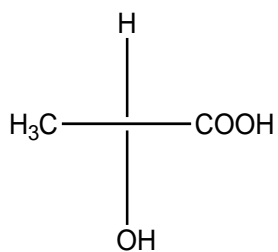
2) L-фенилаланину



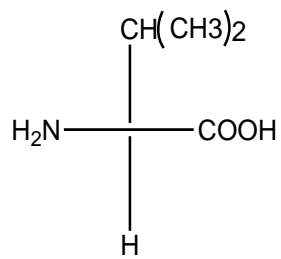
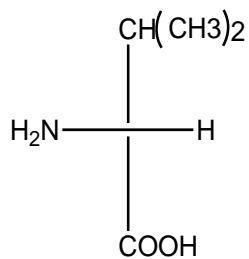
3) L-яблочной кислоте



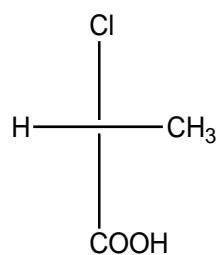
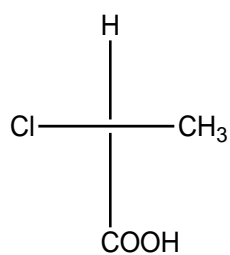
4) D-молочной кислоте



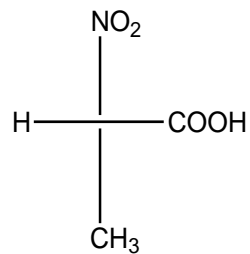
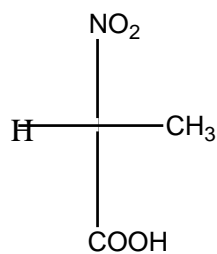
5) D-валину



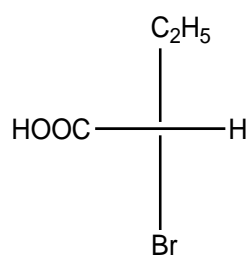
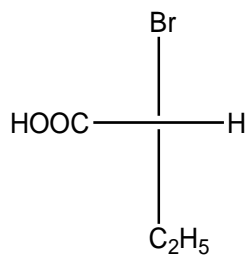
6) D-2-хлорпропановой кислоте



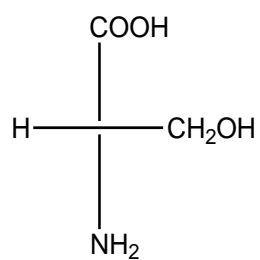
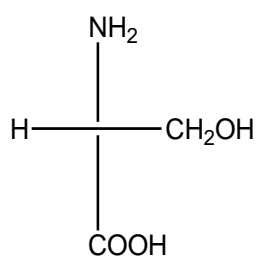
7) L-2-нитропропановой кислоте



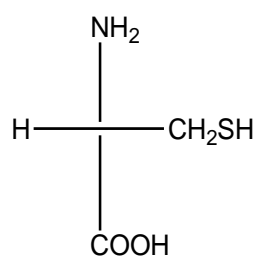
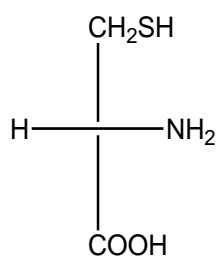
8) L- $\alpha$ -броммасляной кислоте



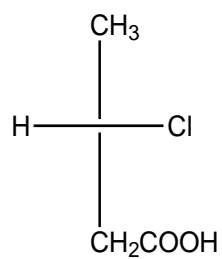
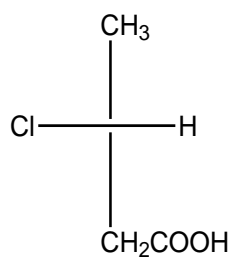
9) D-серину



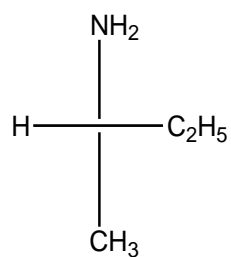
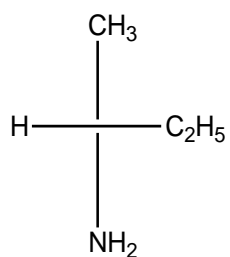
10) L-цистеину



11) L-3-хлорбутановой кислоте

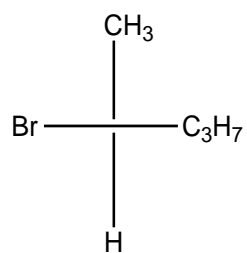
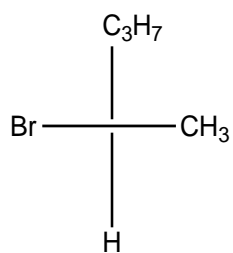


12) D-2-аминобутану

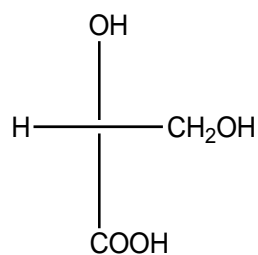
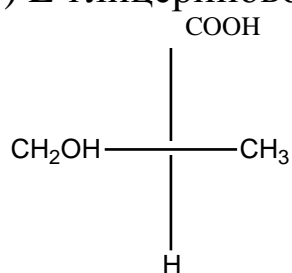




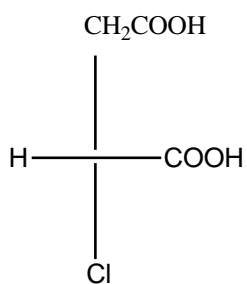
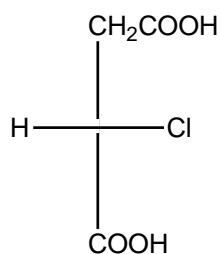
13) D-3-бромпентану



14) L-глицериновой кислоте



15) D-хлорянтарной кислоте



16) L-2-нитропентану

