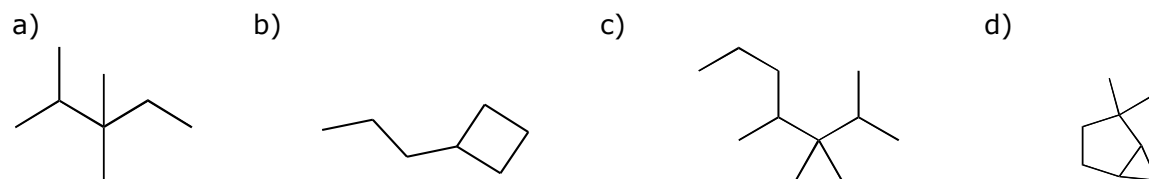


4A. Determine if alkane carbons are 1°, 2°, 3° or 4°

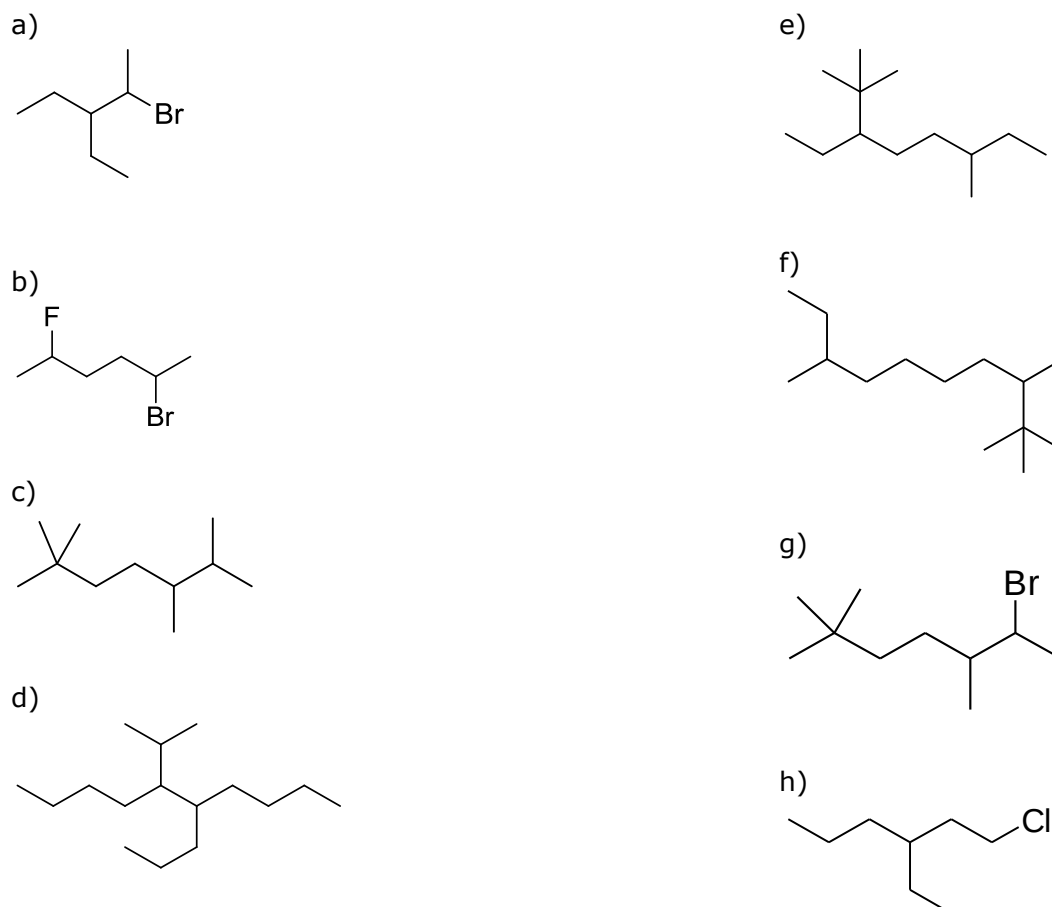
4A.1 Identify carbons in the following molecules as being 1°, 2°, 3° or 4°

**4B. Name alkanes, cycloalkanes and alkyl halides**

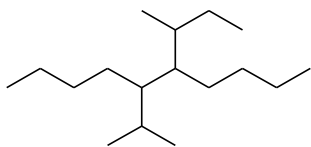
4B.1 Draw the structure of the following molecules.

- a) 1-Bromo-2,2-dichlorobutane b) 7-iodo-2,2,3,5-tetramethyl octane
- c) 5-*t*-butyl-3-methyl nonane d) *trans*-1-bromo-3-iodo cyclopentane
- e) isobutyl cyclobutane f) *cis*-1-methyl-2-propyl cycloheptane

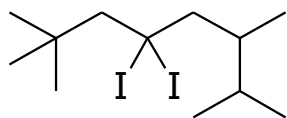
4B.2 Name the following compounds.



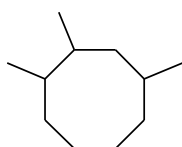
i)



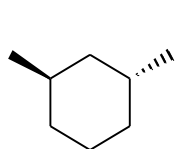
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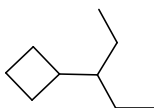
k)



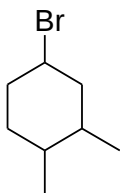
l)



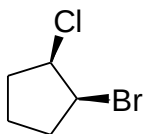
m)



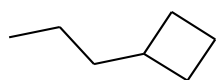
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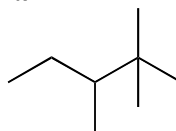
o)



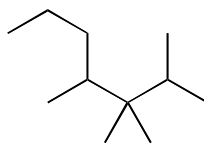
p)



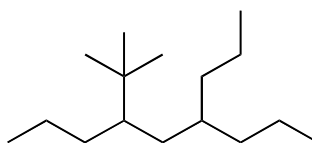
q)



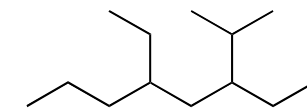
r)



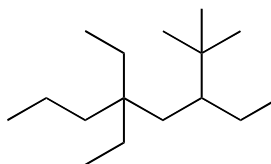
s)



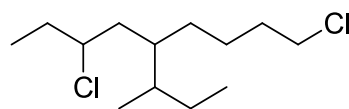
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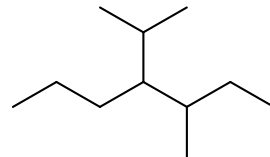
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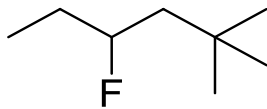
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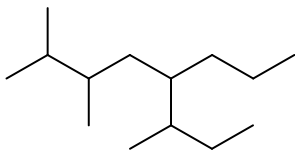
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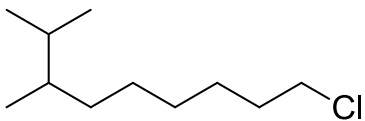
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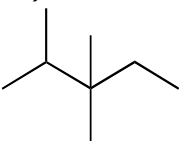
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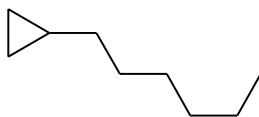
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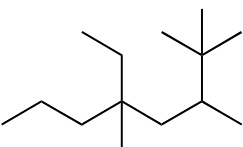
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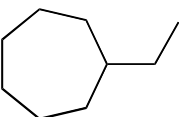
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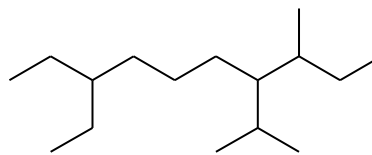
cc)



dd)



ee)



ff)

