

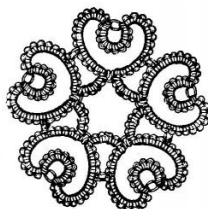
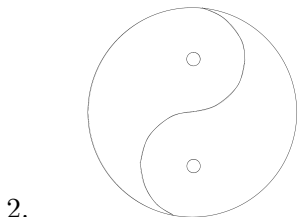
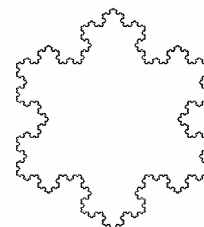
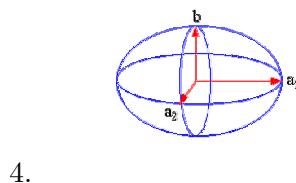
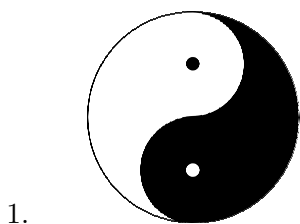
MC 1.3 Physikalische Chemie
Teil A: Symmetrie in der Chemie
Übungen im Sommersemester 2019

Übung 1

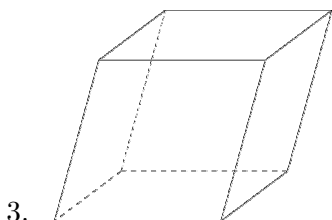
T: 2019-04-11

Aufgabe 1

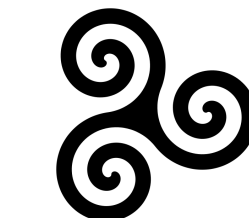
Untersuchen Sie, welche Drehungen (C_n oder S_n) Symmetrieelemente der folgenden Objekte sind:



6.



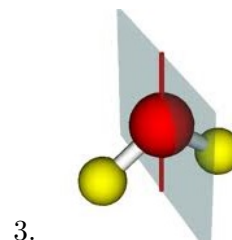
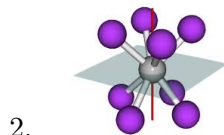
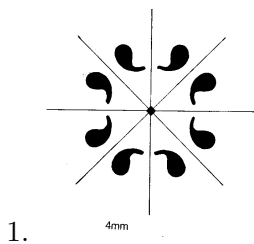
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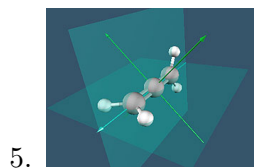
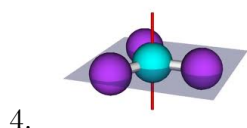


7.

Aufgabe 2

Untersuchen Sie, ob und wenn ja welche Spiegelebenen die folgenden Objekte aufweisen (σ , σ_v , σ_d oder σ_h):





Aufgabe 3

Geben Sie alle Symmetrieelemente der folgenden Moleküle an:

1. SOCl_2

2. NH_3

3. Allen

4. BCl_3

