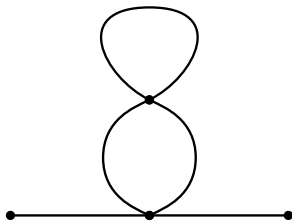


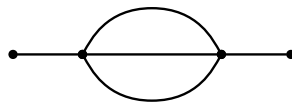
Phase Transitions and Critical Phenomena

Problem 1 Symmetry factors

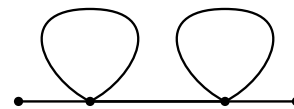
Determine the symmetry factors for the following Feynman diagrams in the ϕ^4 -theory:



(a)



(b)



(c)