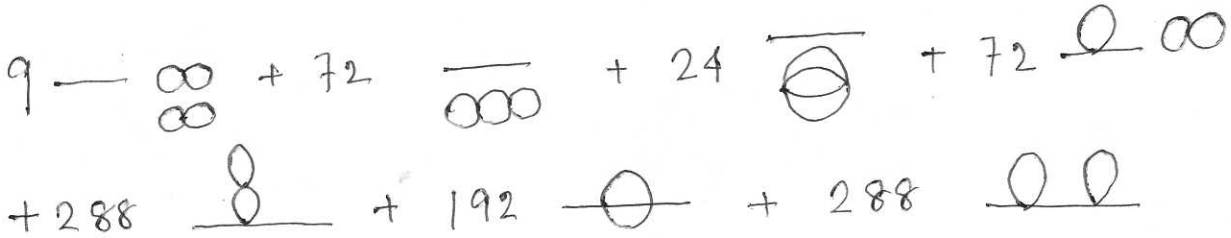
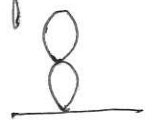
PROBLEM SET - 7.

(1) SHOW THAT IN $\lambda\phi^4$ theory, the second order in λ correction to the two point function comes from the following diagrams.



Get these symmetry factors correct.

For the diagrams  and  , find the order of divergences in the loop integrals at large loop momenta.

(2) For $\lambda\phi^3$ interaction, show that the leading corrections to the two point function comes from the following diagrams

Find the symmetry factors for each.