Exercise 13.1.
In the theory of a scalar field $\phi$ with mass $m$ and quartic interaction $\mathcal{L}_{\text{int}} = -\frac{\lambda}{4!} \phi^4$ calculate the amplitude for $2\rightarrow 2$ scattering up to the order $\lambda^2$ (i.e. in one loop). Use subtraction at zero momenta to get the finite result.