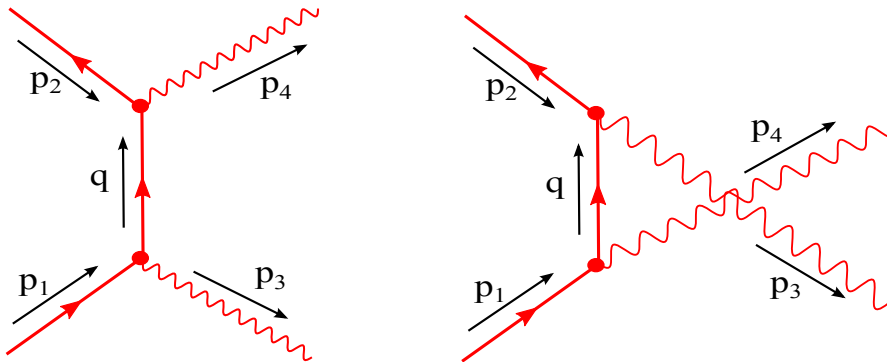


1. Work out the amplitudes for the following QED Feynman diagrams:



2. Show that

a) $\text{Tr} [\gamma^\mu \gamma^\nu (1 - \gamma^5) \gamma^\lambda (1 + \gamma^5) \gamma_\lambda] = 32g^{\mu\nu}$

b) $\text{Tr} [(\not{p} + mc)(\not{q} + Mc)(\not{p} + mc)(\not{q} + Mc)] = 8 [(p \cdot q) + mM c^2]^2$
