

# Radiation Detector 2018/19 (SPA6309), Homework 1

© 2019 Teppei Katori

Name:

ID:

## Problem 1 (10 points)

Draw Feynman diagrams of following processes. More than one diagram is possible for some processes, in this case draw the most probably one.

1.  $\Delta^{++} \rightarrow p\pi^+$
2.  $\pi^0 \rightarrow \gamma\gamma$
3.  $\pi^+ \rightarrow \mu^+\nu_\mu$
4.  $\gamma + p \rightarrow \pi^0 + p$
5.  $\nu_\mu + n \rightarrow \mu^- + p$

