Question 35 (5 marks)

There are a number of different isomers with the molecular formula of $\mathrm{C_5H_{10}}$. These include chain isomers and cyclic isomers such as cyclopentane, which is shown here.

| Туре | Diagram |
|------------|---------|
| ans isomer | |
| is isomer | |

(a)

Chemical tests (adding reagent/s) can be used to distinguish between **chain** and **cyclic** isomers in this question.

(b) In the table below suggest a distinguishing test by stating the reagent/s used and the observations expected for any reaction with each isomer. (3 marks)

| Reagent/s | | |
|--------------|------------------------|---------------|
| | Cis/trans chain isomer | Cyclic isomer |
| Observations | | |