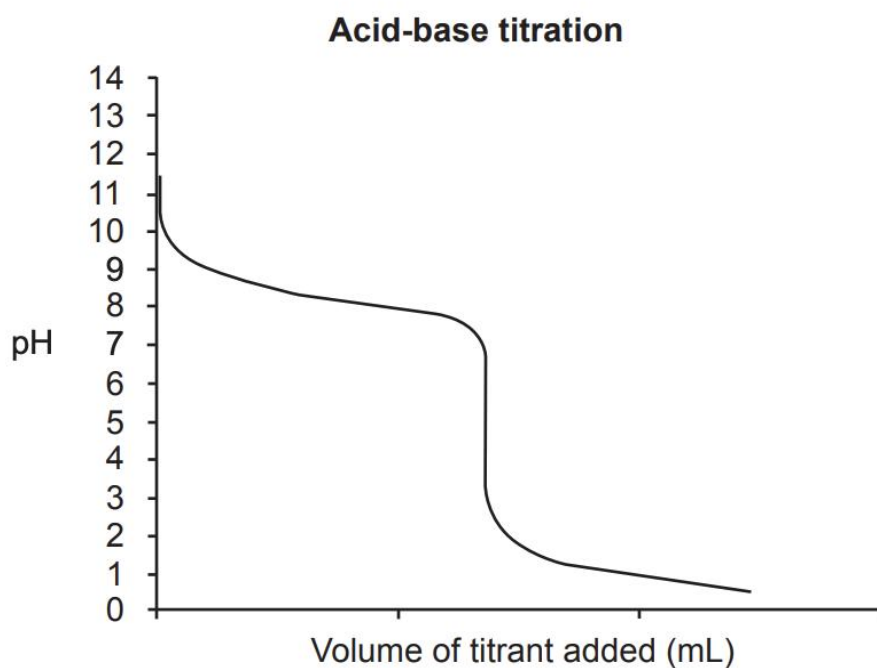


Question 34**(6 marks)**

The data below were collected from an acid-base titration.

- (a) Label the equivalence point on the titration curve below using an arrow and record the pH value at this point. (2 marks)



pH value at equivalence point: _____

- (b) Select an indicator from the table below that would be **best** for this titration and justify your choice. (4 marks)

Indicator	Low pH colour	Transition pH range	High pH colour
Methyl Yellow	red	2.1 – 3.3	yellow
Bromocresol Green	yellow	3.8 – 5.4	blue
Bromothymol Blue	yellow	6.0 – 7.6	blue
Phenolphthalein	colourless	8.3 – 10.0	pink
Alzarine Yellow R	yellow	10.2 – 12.0	red

Indicator: _____

Justification: _____
