• A 20.0 mL solution of nitrous acid (HNO ₂ , pK _a = 3.15) was titrated to its equivalence point with 24.8 mL of 0.020 M NaOH. What is the concentration of the HNO ₂ solution?		Marks 7
	Answer:	
What was the pH at the start of the titration		_
what was the pit at the start of the thrane	on:	
	pH =	
What was the pH after (a) 12.4 mL and (b) 24.8 mL of the NaOH had been added?		-
(a) 12.4 mL: pH =	(b) 24.8 mL: pH =	
Qualitatively, how would each of these three pH values be affected if 5 mL of water were added to the 20.00 mL of nitrous acid before beginning the titration?		