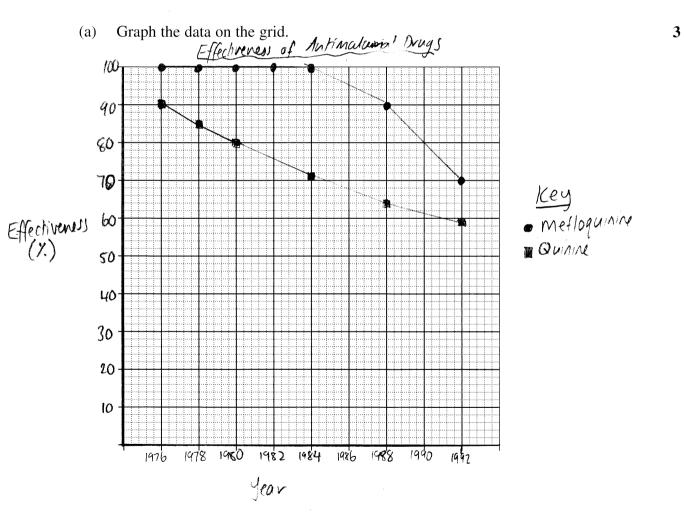
Question 22 (6 marks)

The following data were recorded about the effectiveness of antimalarial drugs for treating malaria.

Year	Effectiveness of drug (%)	
	Mefloquinine	Quinine
1976	100	90
1978	100	85
1980	100	80
1984	100	72
1988	90	64
1992	70	58



Question 22 continues on page 11

Question 22 (continued)

(b) Use these data to explain the impact of human processes on biodiversity. 3 The data fravides endence for the arrive of resistance in the backenia (auting malana as the effectiveness of mefloquinine was stable at 100% for 8 years then declined vapidly and the effectiveness of quinine decreased steadily over the 17 year person. The decrease in effectiveness is due to resistance in the backteria's fearback by the human's development of the antinatarials as they have allowed for only those with natural generic resistance to studie inderection 22 developing and upong antinalarials has the human so the biodiversity of the backeria's population so that A is new increasingly resistant to the danged that A is new increasingly resistant to the danged