10 (a) Show that
$$\frac{9^{3y}}{243} = 3^{(6y-5)}$$

(4)

(b) Solve the simultaneous equations

$$\frac{9^{3y}}{243} = 27^{(x-2)}$$

$$\log_{10}\sqrt{6xy} = \log_4 2$$

(9)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 10 continued	

Question 10 continued			
	(Total fo	or Question 10 is	13 marks)

