7.	(a) Prove that there is no rational x for which $x^3 = 4$.	[5
	(b) Which part of the argument does not work if we try to follow the same outline to prove that there is no rational z for which $z^3 = 8$?	[2
	(c) Prove that there is no rational y for which $2^y = 27$.	[4
	(d) Where x and y are as defined in parts (a) and (c), determine whether the following quantities are rational or irrational:	[6
	i. $x + \frac{22}{7}$	
	ii. $\frac{2}{27}y$	
	iii. x^y	