	3	- 7		1.7				
(a)	Solve the	inequality :	$x^2 + x - 6 > 0$,	giving your	answer in	set notatio	n.	[4]

In this question you must show detailed reasoning.

Find the exact solution of the equation $(3^x)^2 = 3 \times 2^x$.

(b) Solve the equation $x^3 - 7x^{\frac{2}{2}} - 8 = 0$.