	$5\cos^2 x + 3\cos x - 2 = 0.$	[3]
(b)	In this question you must show detailed reasoning.	
	Hence solve the equation	

(a) Show that the equation  $2\cos x \tan^2 x = 3(1+\cos x)$  can be expressed in the form

Hence solve the equation  $2\cos 3\theta \tan^2 3\theta = 3(1+\cos 3\theta),$ 

 $2\cos 3\theta \tan^2 3\theta = 3(1+\cos 3\theta),$ giving all values of  $\theta$  between  $0^\circ$  and  $120^\circ$ , correct to 1 decimal place where appropriate. [6]