Week 7 SI

1. Find all the solutions for the following equations
	1. $sin^{2}x-4sinx=0$
	2. $2cos^{2}x-5cosx+2=0$
	3. $2sec^{2}θ-2secθ=2$
2. Find all the solutions to the following equations
	1. $-5cosθ=-2sin^{2}θ+4$
	2. $tan^{2}x+2secx=-1$
	3. $4sin^{2}θ=5+4cosθ$
3. Complete the proof of the following identities and **write the rule you use**.
	1. $sinx^{2}-cosx^{2}=1-2cos^{2}x$
	2. $sinx^{2}+3cosx^{2}=3-2sin^{2}x$