

2.3 Trigonometric Formulae

At the end of this outcome I should...	I can do	Revised
2.3.1 solve trig equations in a given interval		
$\cos^2 x = 1, 0 \leq x \leq 2\pi$ **		
$3\sin^2 x + 7\sin x - 6 = 0, 0 \leq x \leq 2\pi$ **	<input type="checkbox"/>	<input type="checkbox"/>
2.3.2 know and apply the addition formulae:		
$\sin(A+B) = \sin A \cos B + \cos A \sin B$		
$\sin(A-B) = \sin A \cos B - \cos A \sin B$		
$\cos(A+B) = \cos A \cos B - \sin A \sin B$		
$\cos(A-B) = \cos A \cos B + \sin A \sin B$	<input type="checkbox"/>	<input type="checkbox"/>
2.3.3 know and apply the double angle formulae:		
$\sin 2A = 2\sin A \cos A$		
$\cos 2A = \cos^2 A - \sin^2 A$		
$= 2\cos^2 A - 1$		
$= 1 - 2\sin^2 A$	<input type="checkbox"/>	<input type="checkbox"/>
2.3.4 apply trigonometric formulae in solution of geometric problems	<input type="checkbox"/>	<input type="checkbox"/>
2.3.5 solve trigonometric equations using formulae from 2.3.2 and 2.3.3	<input type="checkbox"/>	<input type="checkbox"/>

N.B. ** indicates Level A/B content