



Alba Mathematics  
Course Revision Task 7  
Hint Sheet



Note on your review sheet if you used one of these hints

Question	Topic	Unit			Hint
		APP	E&F	R&C	
1a	Wave Function		✓		Use expansion, coefficients and CAST
1b	Trig Equation	✓			Rearrange first and compare <b>1a</b> above
2	Straight Line	✓			Parallel lines – equal gradients
3a	Rate of Change			✓	Differentiate
3b	Rate of change value			✓	Substitute into differential equation
4	Circle Equation	✓			$(x - a)^2 + (y - b)^2 = r^2$ and mid point of AB
5a	Trig Graphs		✓		Period is $\pi$
5b	Trig Equations			✓	Solve $3\sin 2x + 1 = -1$ (in degrees)
6	Laws of Logs		✓		Show clearly both sides equal 12
7	Trig Equation			✓	Substitute $\cos 2x = 2\cos^2 x - 1$
8	Further Differentiation			✓	Use formula sheet
9	Sketching logarithmic graphs		✓		Use basic laws of logs
10	Equation of Tangent (circle)	✓			Sub $x = 1$ for coordinates and use centre