



Alba Mathematics
Course Revision Task 1
Hint Sheet



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

Question	Topic	Unit			Hint
		APP	E&F	R&C	
1	Straight Line Equation	✓			For parallel lines, $m_1 = m_2$
2	Straight Line gradients	✓			Use $m = (y_2 - y_1) / (x_2 - x_1)$
3a	Perp Bisectors	✓			Find mid-point ; use $m_1 \times m_2 = -1$
3b	Point of intersection	✓			Simultaneous equations from 3a
4	Solution of trig equations			✓	Think trinomial solutions by factorising
5a	Composite Functions		✓		In $g(x)$, substitute x for $x/(1-x)$
5b	Composite Functions		✓		If (composite function) = x , then....
6	$m = dy/dx$			✓	Calculate m and y -coordinate using x
7a	Composite Functions		✓		Substitute $x = \tan 2x + \sqrt{3}$ into $f(x)$
7b	Trig Equations			✓	Rearrange into $\tan 2x = \dots$ then solve
8a	Sketching graphs of functions		✓		Think of $y = -h(x) + 2$
8b	Sketching graphs of functions		✓		Think of $y = h(x - 2)$ first
9a	Straight Line	✓			$m = \tan x$
9b	Perpendicular lines	✓			$m_1 \times m_2 = -1$
10a	Trig Graph and Equations		✓	✓	Use period and amplitude
10b	Solve Trig Equations			✓	Rearrange to $\sin x = \dots$