



Alba Mathematics
Course Revision Task 8
Hint Sheet



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

Question	Topic	Unit			Hint
		APP	E&F	R&C	
1a	Algebraic Sub. / Polynomials			✓	Equate and rearrange ($=0$) ; polynomials
1b	Polynomials using quotient			✓	No solutions for quotient $Q(x) = 0$
2	Discriminant (equal roots)			✓	Solve $b^2 - 4ac = 0$
3	Integral evaluation			✓	Basic integration and substitution
4	Log Equations and rules		✓		$\log_x 16^{1/2} = 2$
5	Trig Identity		✓		Expand $\sin(A - B)$
6	Compound Angle Formula		✓		Expand $\sin(180 - 45)^\circ + \cos(180 - 45)^\circ$
7	Circle and tangent	✓			Subs. line into circle and solve $b^2 - 4ac = 0$
8a	Inverse Functions		✓		Rearrange to $x = \dots$
8b	Evaluating Inverse Function		✓		Simple substitution into (a)
9	Sketch Trig Graphs		✓		Period of $\sin 2x$ is π
10	Vectors (perpendicular)		✓		Use $\mathbf{a} \cdot \mathbf{b} = 0$