



ALBA MATHEMATICS  
Course Revision Task 9  
Answers



Quest.	App	E&F	Rel	Answer
1a			✓	Lands after 5 seconds
1b			✓	Max. height = 9 metres
2		✓		Volume = $3620\text{cm}^3$ ( 3 s.f.)
3		✓		Using Pythagoras, $AB = \sqrt{44}$ then $AC = \sqrt{80} = 4\sqrt{5}$
4		✓		$\frac{4p^2 + 3q}{2pq}$
5		✓		$3x^2(x + 1)(x - 1)$
6		✓		$x^3 + 2x^2 - 27x + 12$
7			✓	$x = 3$ and $-5/2$
8			✓	$g = \frac{4q+8}{15q}$
9		✓		$3\frac{1}{2}$
10		✓	✓	Axis of symmetry: $x = 3$ ; Turning point $(3, -1)$