

# Algebra: Quadratics, Rearranging Formulae and Identities

## Calculator 10 minute test 3

Q	Answer	Mark	Comments
1	Chooses both of (c) $a^6$ and (d) $(a^3)^2$ and no incorrect statements.	B2	B1 Chooses one of (c) $a^6$ or (d) $(a^3)^2$ OR Chooses both of (c) $a^6$ and (d) $(a^3)^2$ and one incorrect statement.
2	$4x(x - 25)$	B2	Factorises fully. B1 for factorising partially e.g. $4(x^2 - 25x)$ or $x(4x - 100)$
3	$a - b = \frac{c}{2}$	M1	Attempts to isolate the $c$ term.
	$2(a - b) = c$	A1	o.e. $2a - 2b = c$
3 alt	$2a = 2b + c$	M1	Multiplies through to remove the fraction. All terms must be correct.
	$2a - 2b = c$	A1	o.e. $2(a - b) = c$
4	Square	B1	Or uses $^2$ notation
	$\times 2$	B1	Or uses words
5	$3.6^2 \times 3.14 \times 20$	M1	Attempt to expand the brackets with at least four terms.
	$= 813.888$	A1	Allow 813.888 for A1 Allow use of $\pi$ button on calculator (as question misread) but not leaving in terms of $\pi$ .
	814	B1ft	ft their value correctly rounded to 3sf