

Algebra: Quadratics, Rearranging Formulae and Identities Exam Questions

Q	Answer	Mark	Comments
1(a)	$2x + 4 + 4x - 3 + 2x + 4 + 4x - 3$	M1	oe
	$12x + 2$	A1	Allow $P = \dots$
1(b)	Chooses both of $(2x + 4)(4x - 3)$ and $8x^2 + 10x - 12$ and no incorrect statements.	B2	B1 Chooses one of $(2x + 4)(4x - 3)$ or $8x^2 + 10x - 12$ OR Chooses both of $(2x + 4)(4x - 3)$ and $8x^2 + 10x - 12$ and one incorrect statement.
2(a)	$(x + 9)(x - 2)$	M1	Factorises
	$x + 9 + x - 2 + x + 9 + x - 2$	M1	
	$4x + 14$	A1	
2(b)	$(11 + 9) \times (11 - 2)$ OR $11^2 + 7 \times 11 - 18$	M1	Substitutes into either original quadratic or factorised form
	180	A1	
3(a)	$4x - ax = 8y - 12$ OR $ax - 4x = 12 - 8y$	M1	Isolates x terms
	$x(4 - a) = 8y - 12$ OR $x(a - 4) = 12 - 8y$	M1	Factorises x terms
	OR $x = \frac{8y - 12}{4 - a}$ $x = \frac{12 - 8y}{a - 4}$	A1	
3(b)	$x = \frac{8 \times 10 - 12}{4 - 2}$	M1	Substitutes into either original or rearranged form o.e.
	34	A1	cao