

Year 11 to Year 12 Transition Paper
Quadratics
Mark Scheme

Question	Scheme	Marks
1(i)	$x^2 - 8x + 17 = (x - 4)^2 - 16 + 17$	M1
	$= (x - 4)^2 + 1$ with comment (see notes)	A1
	As $(x - 4)^2 \geq 0 \Rightarrow (x - 4)^2 + 1 \geq 1$ hence $x^2 - 8x + 17 > 0$ for all x	A1
		(3)
(ii)	For an explanation that it may not always be true Tests say $x = -5$ $(-5 + 3)^2 = 4$ whereas $(-5)^2 = 25$	M1
	States sometimes true and gives reasons Eg. when $x = 5$ $(5 + 3)^2 = 64$ whereas $(5)^2 = 25$ True When $x = -5$ $(-5 + 3)^2 = 4$ whereas $(-5)^2 = 25$ Not true	A1
		(2)
		(5 marks)

Question	Scheme	Marks
2(a)	$x^2 - 10x + 23 = (x \pm 5)^2 \pm 4$	M1
	$(x - 5)^2 - 2$	A1
		(2)
(b)	$(x \pm 5)^2 - 4 \Rightarrow x = \dots$ or $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \Rightarrow x = \dots$	M1
	$\left(x = \frac{10 \pm \sqrt{10^2 - 4(1)(23)}}{2} \right)$	
	$x = 5 \pm \sqrt{2}$	A1
		(2)

Quadratic Equations Edexcel Mark Scheme

Roberta J. Flexer, Abraham S. Flexer



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