

Topic Test 1 Mark Scheme

Solving quadratic equations - Foundation

Q	Answer	Mark	Comments
1	$x^2 - 4x + 5x - 20$	M1	Condone one sign error
	$x^2 + x - 20$	A1	
2	$(x \pm a)(x \pm b)$ where $ab = 20$	M1	
	$(x + 10)(x + 2)$	A1	
3	$(x \pm a)(x \pm b)$ where $ab = -12$	M1	
	$(x + 6)(x - 2)$	A1	
	-6 and 2	A1ft	ft their brackets if M awarded
4	$(x + 5)(x - 5)$	B1	
5	$(x \pm a)(x \pm b)$ where $ab = 30$	M1	
	$(x - 5)(x - 6)$	A1	
	5 and 6	A1ft	ft their brackets if M awarded

6(a)	$(x + 1)(x + 6) = 66$	M1	
	$x^2 + 7x + 6 (= 66)$	A1	
	$x^2 + 7x - 60 = 0$	A1dep	dep on first A being awarded
6(b)	$(x \pm a)(x \pm b)$ where $ab = -60$	M1	
	$(x + 12)(x - 5)$	A1	