Question			Answer	Mark	AO	Guidance
1	(a)	(i)	$(x-4)^2-5$	B1 B1 [2]	1.1 1.1	B1 for each constant. For '4' (Allow $a = 4$) For '−5' (Allow $b = -5$) ISW
1	(a)	(ii)	−5	B1FT [1]	1.1	FT their b Accept (4, −5) as the coordinates of the minimum point but must be correct for their a and b.
1	(b)		$(-8)^2-4\times(11-k)=0$ or $x^2-8x+11-k \equiv (x-4)^2$ $k=-5$	M1 A1 [2]	1.1 1.1	Write $b^2-4ac=0$ (accept >0 for this mark only) or equate with completed square form. Accept a sketch or equivalent reasoning. Final answer must be given as $k = -5$ SC**B1**: correct answer without working (max [1/2])