22	(a)		correct graph (see end of mark scheme) [must go through (60, 2), (150, 0), (240, −2), (330, 0)] and not through (0, 0)	2	B2	if not B2 then award B1 for a graph of the correct shape going through 2 or 3 of the given points or for a clear stretch of SF2 (ie a maximum point on graph at (x_1, 2) and a minimum point at (x_2, −2)) or a clear translation of $\begin{pmatrix} -30 \\ 0 \end{pmatrix}$ (ie a point on graph at (150, y) and a point at (330, y))
	(b)(i)		$(x - 3)^2 + 1$	2	B2	(B1 for $(x - \frac{6}{2})^2 + n$ (where n ≠ 1) **or** for $(x - m)^2 + 1$ (where m ≠ 3) **or** for $x^2 - ax - ax + a^2 + b$ with $2a = 6$ or $a^2 + b = 10$)
	(b)(ii)		translation of $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$	2	B1	for translation
					B1	For $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$ ft from (b)(i) must be column vector
						Total 6 marks