Question		Working	Answer	Mark	Notes	
22		$-2(x^2-6x)+5$ or $-2(x^2-6x-2.5)$		4	M1	Factorising by extracting – 2 in a correct expression
		$-2[(x-3)^2-9-2.5]$ or $-2[(x-3)^2-9]+5$			M1	Correct expression equivalent to $5+12x-2x^2$
		$-2[(x-3)^2-11.5]$ or $-2(x-3)^2+18+5$			M1	Correct expression equivalent to $5+12x-2x^2$
			$23-2(x-3)^2$		A1	**Award full marks if a, b, and c are correctly stated and $23-2(x-3)^2$ is not stated anywhere.** SC B3 for $23-2(3-x)^2$ SC B2 for $-2(x-3)^2$ + constant or $23-2(x+\text{constant})^2$ SC B1 for $-2(x+3)^2$ +constant
		Alt: $a+b(x^2+2cx+c^2)$			M1	Multiplying out expression correctly
		$2bc=12$ or $a+bc^2=5$ or $b=-2$			M1	Equating coefficients or stating value of b
		$2\times-2\times c=12$ or $c=-3$			M1	Method to calculate c
		$a+-2\times(-3)^2=5$ or $a=23$ seen			M1	Method to calculate a
			$23-2(x-3)^2$			SC B3 for $23-2(3-x)^2$
						Total 4 marks