20 (a)	$2\left(x^2-\frac{11}{2}x\right)+...$ **or** $2\left(x^2-\frac{11}{2}x+...\right)$ oe		3	M1	for taking out a factor of 2
	$2\left[\left(x-\frac{11}{4}\right)^2-\frac{11^2}{4^2}\right]+...$ **or** $2\left[\left(x-\frac{11}{4}\right)^2-\frac{11^2}{4^2}+...\right]$ oe			M1	for correctly completing square
	Correct answer scores full marks (unless from obvious incorrect working)	$2\left(x-\frac{11}{4}\right)^2-\frac{49}{8}$		A1	oe, eg $2(x-2.75)^2-6.125$ allow $a = 2$, $b = \frac{11}{4}$ oe, $c = \frac{49}{8}$ oe if no other marks awarded, award SCB1 for $2\left(x-\frac{11}{4}\right)^2+...$
	ALTERNATIVE				
ALT (a)	$ax^2 - 2bax + b^2a - c$		3	M1	for correctly expanding $a(x-b)^2 - c$ to give $ax^2 - 2bax + b^2a - c$
	$-2ba = -11$ or $2ba = 11$ and $b^2a - c = 9$			M1	for setting up 2 equations using the coefficient of x and the numerical term
	Correct answer scores full marks (unless from obvious incorrect working)	$2\left(x-\frac{11}{4}\right)^2-\frac{49}{8}$		A1	oe, eg $2(x-2.75)^2-6.125$ allow $a = 2$, $b = \frac{11}{4}$ oe, $c = \frac{49}{8}$ oe if no other marks awarded, award SCB1 for $2\left(x-\frac{11}{4}\right)^2+...$
(b)		$\left(\frac{23}{4}, -\frac{49}{8}\right)$	2	B2ft	oe, eg (5.75, −6.125)
				(B1ft	for one correct coordinate)
					Total 5 marks