Question			Answer	Marks	AO	Guidance		
8	(a)		<i>x</i> < 0	B1	2.2a	Correct inequality	<b>B0</b> for $x \le 0$ Could use interval notation ie $(-\infty, 0)$ Condone an incorrect attempt at set notation, as long as intention is clear	
8	(b)	(i)	max value is 19 (from $n = -9$ )	B1 [1]	1.1	State correct value, and no other	Value of $n$ not required, but <b>B0</b> if 19 comes from a clearly incorrect $n$ <b>B0</b> if additional solution <b>B0</b> for $n \le 19$	
8	(b)	(ii)	min value is 1 (from $n = 0$ and/or 1)	B1 [1]	1.1	State correct value, and no other	Value of $n$ not required, but <b>B0</b> if 1 comes from a clearly incorrect $n$ <b>B0</b> if additional solution <b>B0</b> for $n \ge 1$	
8	(c)	(i)	$\frac{1}{2}x - 1 = 2x - 3$ $x = \frac{4}{3}$ $\frac{1}{2}x - 1 = -2x + 3$ $x = \frac{8}{5}$	B1 M1	1.1 1.1	Obtain $x = \frac{4}{3}$ oe  Attempt to solve equation with all signs reversed on one side of the equation, or square both sides and attempt to solve  Obtain $x = \frac{8}{5}$ oe	<b>M0</b> for eg $\frac{1}{2}x-1=-2x-3$ Maximum of 2 marks if additional solutions	
				[3]				

Question			Answer	Marks	AO	Guidance	
			Alternative method	M1 A1 A1		Square both sides to obtain two 3 term quadratics, and attempt to solve  Obtain $x = \frac{4}{3}$ Obtain $x = \frac{8}{5}$	Possibly <b>BC</b> Maximum of 2 marks if additional solutions
8	(c)	(ii)	$x = \frac{8}{5}$ only, as $2 \times \frac{4}{3} - 3 = -\frac{1}{3}$ but modulus cannot be equal to a negative value, so not a valid solution  OR  Sketch graphs of both functions and identify $x = \frac{8}{5}$ as the single point of intersection  OR  State that the gradient of the straight line is greater than the gradient of the (positive part) of the modulus graph so will only be one point of intersection, namely $x = \frac{8}{5}$	B1	2.3	State $x = \frac{8}{5}$ , with reason as to why other solution is not valid  The gradient of $y = 2x - 3$ must be clearly greater than the gradient of $y = \frac{1}{2}x - 1$	Both values of <i>x</i> must be correct ie no FT  Correct sketch, but no scale needed (ISW any incorrect intercepts), but intercept of the lines must be to the left of the minimum point

Question			Answer	Marks	AO	Guidance		
				[1]				