8 **(a)** State the set of values for which $|x| > x$. **[1]**

(b) You are given that n is an integer such that $|n| \leqslant 9$.

(i) Find the maximum value of $|2n-1|$. **[1]**

(ii) Find the minimum value of $|2n-1|$. **[1]**

(c) **(i)** Solve the equation $\left|\frac{1}{2}x-1\right| = |2x-3|$. **[3]**

(ii) Explain why the equation $\left|\frac{1}{2}x-1\right| = 2x-3$ has only one solution, and state the value of this solution. **[1]**