Briefly describe possible methods for solving the inequality $\frac{1}{x}<x$

Solution
Method 1: Multiply both sides by $x^{2}$, and consider critical points Method 2: Treat the cases $x<0$ and $x>0$ separately Method 3: Rearrange as $\frac{1}{x}-x<0$, and consider critical points Method 4: Sketch $y=\frac{1}{x}$ and $y=x$, and consider points of intersection

