$\overline{AC}$ 中垂線 $y - \dfrac{b + \frac{1}{2}}{2} = \dfrac{-a}{b - \frac{1}{2}}(x - \dfrac{a}{2})$ ；$\overline{BC}$ 中垂線 $y - \dfrac{b + \frac{1}{2}}{2} = \dfrac{a}{b - \frac{1}{2}}(x + \dfrac{a}{2})$

兩中垂線之交點(圓心)坐標 $(0, \dfrac{-3(b^2 - \frac{1}{4})}{2(b - \frac{1}{2})})$ ，又 $a \to 0 \Rightarrow b \to \pm\dfrac{1}{2}$ ，則

$\displaystyle\lim_{b \to \frac{1}{2}} -\dfrac{3}{2}\dfrac{b^2 - \frac{1}{4}}{b - \frac{1}{2}} = -\dfrac{3}{2} \Rightarrow r \to \left|\dfrac{1}{2} - (-\dfrac{3}{2})\right| = 2$ 或

$\displaystyle\lim_{b \to -\frac{1}{2}} -\dfrac{3}{2}\dfrac{b^2 - \frac{1}{4}}{b - \frac{1}{2}} = 0 \Rightarrow r \to \left|\dfrac{1}{2} - (0)\right| = \dfrac{1}{2}$