#1
$$\begin{cases}
x = \sqrt{2} \\
x' = \frac{1154}{816}
\end{cases}
\Rightarrow e = |x - x'| = |\sqrt{2} - \frac{1154}{816}| = +0.0000021239 \angle$$

$$\frac{x'' = \frac{1154}{816}}{\sqrt{2}} = 0.00000150182 \angle 0.5 \times 10^{-6}$$

$$\frac{1}{|x|} = \frac{1}{\sqrt{2}} = 0.00000150182 \angle 0.5 \times 10^{-6}$$

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2
$$\begin{cases}
\frac{3\sqrt{9}}{f(n)} : \sqrt{3\sqrt{2}} \\
\chi_{1} : \sqrt{8}, \chi_{2} : \sqrt{9}
\end{cases}$$

$$\begin{cases}
\frac{(n)}{(n)} : \frac{(n)}{(n-1)} + \frac{(n-x_{1})}{(n-x_{2})} \cdot \frac{(n-x_{2})^{2}}{(n-x_{2})^{2}} \cdot \frac{(n-x_{2})^{2$$

$$\Rightarrow P(9): \sqrt[3]{9} \approx 2 + 0.083 + \frac{-0.006}{2} + \frac{0.001}{6} = 2.08$$

#3
$$\frac{x}{(x_1)} = 0.2 = 0.4 = 0.6 = 0.8 = 1$$

=> $P_2 = 0.4 \subset x^2 = 0.5 = 0.8$