8.b

$$A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix}, \quad {}^1\|B\|_\infty = \left| \frac{a_{12}}{a_{21}} \right|, \quad {}^2\|B\|_\infty = \left| \frac{a_{21}\, a_{12}}{a_{11}\, a_{22}} \right|$$

$$\sum_{j=1, j \neq i}^{2} |a_{ij}| = |a_{12}| + |a_{21}| < a_{ii}$$

$$\left. \begin{array}{l} |a_{21}| < |a_{11}|, \\ |a_{12}| < |a_{22}| \end{array} \right\} \quad |a_{21}||a_{12}| < |a_{11}||a_{22}|$$

$$\left| \frac{a_{21}\ \ a_{12}}{a_{11}\ \ a_{22}} \right| < 1$$

$${}^2\|B\|_\infty < 1$$

... ONE OF TWO POSSIBLE
MAX ROW SUMS IS

$$< 1$$