

$$A = \begin{pmatrix} 0 & 2 & 2 \\ a & 0 & 0 \\ 0 & 1 & 0 \end{pmatrix}$$

$a = 2$, je-li dominantní vlastní hodnota
rovna 1

$$|A - \lambda E| = \begin{vmatrix} -\lambda & 2 & 2 \\ a & -\lambda & 0 \\ 0 & 1 & -\lambda \end{vmatrix} =$$

$$= -\lambda^3 + 2a + 2a\lambda$$

$$\text{pro } \lambda = 1: -1 + 2a + 2a = 0$$

$$\underline{\underline{a = \frac{1}{4}}}$$