

Дана матрица $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$, Найти ее собственные значения и вектора.

Варианты:

- 1) $a = 2, b = 1, c = 1, d = 2$,
- 2) $a = 1, b = 0, c = 1, d = 2$,
- 3) $a = -1, b = 2, c = 0, d = 1$,
- 4) $a = -1, b = 2, c = 0.5, d = -1$,
- 5) $a = -1, b = 3, c = 0, d = 2$,
- 6) $a = -1, b = 2, c = 2, d = -1$,
- 7) $a = 1, b = 4, c = 1, d = 1$,
- 8) $a = -2, b = 4, c = 0, d = 1$,
- 9) $a = 3, b = 2, c = 0, d = -1$,
- 10) $a = -2, b = 2, c = 1, d = -2$,
- 11) $a = 1, b = 2, c = 0, d = -2$,
- 12) $a = 1, b = 0, c = 3, d = -1$,
- 13) $a = -2, b = 2, c = 0, d = -3$,
- 14) $a = -2, b = 2, c = 0.5, d = -2$,
- 15) $a = 2, b = 3, c = 3, d = 2$,
- 16) $a = 1, b = 3, c = 3, d = 1$.