Индивидуальное задание 3.

Исследовать на совместность СЛАУ с параметром a при заданных значениях параметра a и найти решение, если оно единственно и провести проверку подстановкой.

На листы 'A1', 'A2' и т.п. файла 'Name_Ind_8_SLAE.xlsx' записать матрицы при заданных значениях параметра a, на листы 'b1', 'b2' и т.п. столбцы правой части СЛАУ, на листы 'X1', 'X2' и т.п. решения СЛАУ (если оно существует!).

N 1

$$A = \begin{bmatrix} 2 & 3 & 4 & 3 \\ 4 & 2 & 3 & 2 \\ 4 & 3 & 3 & a \\ 3 & 3 & 4 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ a \\ -3 \\ 0 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 5.$$

N 2

$$A = \begin{bmatrix} a & 1 & 4 & 3 \\ 2 & 3 & 2 & 1 \\ 3 & 2 & 1 & 3 \\ 2 & 4 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -20 \\ 0 \\ a \\ -1 \end{bmatrix}, \alpha = -3, \alpha = 1, \alpha = 7.$$

N 3

$$A = \begin{bmatrix} 4 & 3 & 3 & 1 \\ 3 & a & 1 & 1 \\ 4 & 3 & 1 & 4 \\ 4 & 4 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 16 \\ 6 \\ a \\ 14 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 5.$$

N 4

$$A = \begin{bmatrix} a & 4 & 2 & 4 \\ 4 & 1 & 2 & 2 \\ 3 & 4 & 4 & 1 \\ 4 & 3 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ 7 \\ 3 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 3.$$

N 5

$$A = \begin{bmatrix} 4 & a & 2 & 4 \\ 4 & 4 & 4 & 1 \\ 1 & 3 & 1 & 2 \\ 1 & 3 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 6 \\ 7 \\ 9 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 5.$$

N 6

$$A = \begin{bmatrix} 3 & 3 & a & 4 \\ 3 & 2 & 1 & 3 \\ 4 & 3 & 1 & 4 \\ 4 & 4 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 9 \\ 14 \\ 11 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 4.$$

N 7

$$A = \begin{bmatrix} a & 3 & 2 & 4 \\ 3 & 1 & 2 & 2 \\ 3 & 4 & 1 & 4 \\ 2 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ -3 \\ -7 \\ a \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 7.$$

N 8

$$A = \begin{bmatrix} 2 & a & 2 & 3 \\ 4 & 3 & 2 & 1 \\ 3 & 2 & 1 & 3 \\ 3 & 1 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -4 \\ 8 \\ 12 \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 2.$$

N 9

$$A = \begin{bmatrix} 4 & a & 4 & 1 \\ 1 & 1 & 3 & 3 \\ 1 & 1 & 4 & 4 \\ 1 & 4 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ a \\ 2 \\ -2 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 2.$$

N 10

$$A = \begin{bmatrix} 1 & 3 & 1 & 1 \\ 2 & 2 & 2 & a \\ 4 & 2 & 3 & 2 \\ 1 & 1 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 18 \\ 18 \\ 12 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 3.$$

N 11

$$A = \begin{bmatrix} 1 & a & 2 & 3 \\ 3 & 1 & 2 & 4 \\ 1 & 1 & 3 & 4 \\ 3 & 3 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 10 \\ 4 \\ a \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 6.$$

N 12

$$A = \begin{bmatrix} 4 & 1 & 2 & a \\ 1 & 4 & 2 & 3 \\ 3 & 1 & 1 & 2 \\ 4 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ a \\ -1 \\ -5 \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 4.$$

N 13

$$A = \begin{bmatrix} 2 & 2 & 2 & a \\ 3 & 2 & 2 & 1 \\ 2 & 4 & 4 & 1 \\ 2 & 3 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ a \\ 3 \\ 0 \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 2.$$

N 14

$$A = \begin{bmatrix} 2 & 4 & 2 & 1 \\ 4 & 1 & 1 & 4 \\ a & 2 & 3 & 3 \\ 1 & 2 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 8 \\ 5 \\ 8 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 2.$$

N 15

$$A = \begin{bmatrix} a & 1 & 1 & 4 \\ 2 & 1 & 3 & 1 \\ 1 & 3 & 3 & 3 \\ 3 & 4 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -5 \\ 2 \\ 7 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 2.$$

N 16

$$A = \begin{bmatrix} 4 & 4 & 1 & a \\ 1 & 3 & 3 & 4 \\ 2 & 3 & 3 & 2 \\ 1 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -6 \\ 0 \\ 3 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 5.$$

N 17

$$A = \begin{bmatrix} 1 & a & 3 & 1 \\ 2 & 1 & 3 & 1 \\ 2 & 2 & 3 & 3 \\ 4 & 4 & 4 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ a \\ 3 \\ -2 \end{bmatrix}, \alpha = -4, \alpha = 2, \alpha = 3.$$

N 18

$$A = \begin{bmatrix} a & 1 & 1 & 2 \\ 1 & 1 & 3 & 4 \\ 1 & 1 & 2 & 4 \\ 4 & 1 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 3 \\ 2 \\ 2 \end{bmatrix}, \alpha = -4, \alpha = 1, \alpha = 2.$$

N 19

$$A = \begin{bmatrix} 3 & 2 & 4 & 3 \\ 2 & 2 & a & 3 \\ 3 & 3 & 4 & 1 \\ 1 & 2 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 7 \\ 8 \\ a \end{bmatrix}, \alpha = -3, \alpha = 1, \alpha = 3.$$

N 20

$$A = \begin{bmatrix} a & 2 & 1 & 4 \\ 1 & 2 & 3 & 1 \\ 1 & 4 & 4 & 1 \\ 1 & 2 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ a \\ 10 \\ 2 \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 2.$$

N 21

$$A = \begin{bmatrix} 3 & 3 & 1 & 1 \\ 2 & 3 & a & 4 \\ 1 & 2 & 4 & 2 \\ 1 & 1 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 16 \\ 8 \\ 8 \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 5.$$

N 22

$$A = \begin{bmatrix} a & 1 & 1 & 2 \\ 1 & 2 & 1 & 4 \\ 2 & 3 & 3 & 2 \\ 4 & 2 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 19 \\ 20 \\ 10 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 6.$$

N 23

$$A = \begin{bmatrix} a & 4 & 2 & 3 \\ 4 & 3 & 3 & 2 \\ 2 & 1 & 3 & 4 \\ 1 & 1 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ -5 \\ -3 \\ a \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 4.$$

N 24

$$A = \begin{bmatrix} 3 & 1 & a & 1 \\ 4 & 2 & 3 & 4 \\ 4 & 3 & 2 & 3 \\ 3 & 1 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 19 \\ 8 \\ 7 \\ a \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 2.$$

N 25

$$A = \begin{bmatrix} a & 1 & 4 & 1 \\ 3 & 2 & 1 & 2 \\ 2 & 2 & 3 & 4 \\ 3 & 3 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ a \\ -5 \\ -2 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 7.$$

N 26

$$A = \begin{bmatrix} 2 & 2 & 2 & a \\ 1 & 3 & 4 & 4 \\ 2 & 3 & 3 & 1 \\ 1 & 2 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ a \\ 6 \\ 7 \end{bmatrix}, \alpha = -4, \alpha = 1, \alpha = 2.$$

N 27

$$A = \begin{bmatrix} a & 1 & 4 & 3 \\ 4 & 2 & 2 & 3 \\ 4 & 4 & 1 & 3 \\ 3 & 4 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 16 \\ 22 \\ 14 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 3.$$

N 28

$$A = \begin{bmatrix} 3 & 1 & a & 4 \\ 2 & 1 & 2 & 2 \\ 2 & 1 & 3 & 2 \\ 3 & 2 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 2 \\ 4 \\ 0 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 7.$$

N 29

$$A = \begin{bmatrix} 4 & 4 & a & 4 \\ 3 & 1 & 3 & 1 \\ 3 & 3 & 4 & 3 \\ 3 & 1 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ -4 \\ 6 \\ a \end{bmatrix}, \alpha = -6, \alpha = 2, \alpha = 6.$$

N 30

$$A = \begin{bmatrix} 3 & 1 & 3 & 3 \\ 3 & a & 4 & 3 \\ 1 & 4 & 3 & 3 \\ 3 & 3 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ -4 \\ a \\ -3 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 7.$$

N 31

$$A = \begin{bmatrix} a & 4 & 4 & 4 \\ 1 & 2 & 3 & 4 \\ 3 & 2 & 3 & 1 \\ 4 & 3 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ a \\ 3 \\ 9 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 6.$$

N 32

$$A = \begin{bmatrix} 2 & 4 & 4 & 2 \\ 3 & 3 & a & 3 \\ 1 & 3 & 3 & 2 \\ 1 & 1 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 9 \\ 0 \\ a \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 4.$$

N 33

$$A = \begin{bmatrix} 4 & a & 4 & 4 \\ 1 & 2 & 2 & 1 \\ 1 & 3 & 4 & 2 \\ 1 & 2 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -9 \\ -16 \\ 3 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 6.$$

N 34

$$A = \begin{bmatrix} 1 & 3 & a & 3 \\ 4 & 4 & 4 & 2 \\ 4 & 1 & 2 & 2 \\ 2 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ 16 \\ a \\ 6 \end{bmatrix}, \alpha = -6, \alpha = 4, \alpha = 2.$$

N 35

$$A = \begin{bmatrix} a & 3 & 2 & 1 \\ 2 & 4 & 3 & 2 \\ 1 & 2 & 4 & 1 \\ 4 & 4 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 16 \\ 13 \\ a \\ 19 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 6.$$

N 36

$$A = \begin{bmatrix} 3 & a & 1 & 4 \\ 4 & 2 & 2 & 4 \\ 1 & 2 & 3 & 3 \\ 3 & 4 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 6 \\ a \\ 9 \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 7.$$

N 37

$$A = \begin{bmatrix} a & 3 & 3 & 1 \\ 2 & 3 & 2 & 4 \\ 1 & 3 & 4 & 1 \\ 2 & 2 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ -2 \\ -3 \\ a \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 3.$$

N 38

$$A = \begin{bmatrix} 2 & a & 1 & 4 \\ 3 & 3 & 1 & 1 \\ 2 & 2 & 2 & 4 \\ 1 & 3 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ a \\ -6 \\ -5 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 2.$$

N 39

$$A = \begin{bmatrix} 1 & a & 2 & 4 \\ 3 & 2 & 2 & 4 \\ 3 & 1 & 4 & 4 \\ 2 & 2 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 8 \\ 3 \\ 7 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 7.$$

N 40

$$A = \begin{bmatrix} 3 & a & 2 & 1 \\ 4 & 2 & 1 & 2 \\ 1 & 1 & 1 & 4 \\ 1 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 2 \\ 2 \\ 4 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 2.$$

N 41

$$A = \begin{bmatrix} a & 2 & 1 & 1 \\ 1 & 3 & 3 & 1 \\ 1 & 3 & 4 & 4 \\ 3 & 4 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ a \\ 6 \\ 8 \end{bmatrix}, \alpha = -4, \alpha = 3, \alpha = 7.$$

N 42

$$A = \begin{bmatrix} 2 & 2 & 2 & 2 \\ 3 & 3 & a & 1 \\ 4 & 1 & 3 & 2 \\ 1 & 3 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 7 \\ 8 \\ -2 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 2.$$

N 43

$$A = \begin{bmatrix} a & 4 & 4 & 3 \\ 3 & 3 & 1 & 2 \\ 4 & 3 & 2 & 4 \\ 2 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ 7 \\ a \\ -5 \end{bmatrix}, \alpha = -4, \alpha = 1, \alpha = 4.$$

N 44

$$A = \begin{bmatrix} a & 2 & 4 & 3 \\ 1 & 1 & 3 & 3 \\ 2 & 1 & 4 & 1 \\ 3 & 2 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 3 \\ 2 \\ 4 \end{bmatrix}, \alpha = -6, \alpha = 2, \alpha = 7.$$

N 45

$$A = \begin{bmatrix} 2 & 4 & 1 & 2 \\ 2 & a & 1 & 3 \\ 1 & 2 & 1 & 1 \\ 3 & 1 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ -7 \\ 0 \\ a \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 2.$$

N 46

$$A = \begin{bmatrix} 4 & 3 & 3 & a \\ 1 & 1 & 1 & 3 \\ 1 & 4 & 2 & 2 \\ 4 & 4 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ a \\ -8 \\ -1 \end{bmatrix}, \alpha = -6, \alpha = 2, \alpha = 3.$$

N 47

$$A = \begin{bmatrix} 3 & a & 2 & 1 \\ 4 & 1 & 3 & 3 \\ 3 & 2 & 4 & 2 \\ 1 & 3 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ a \\ -4 \\ 9 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 3.$$

N 48

$$A = \begin{bmatrix} a & 2 & 1 & 1 \\ 1 & 4 & 3 & 4 \\ 1 & 2 & 3 & 3 \\ 1 & 1 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -11 \\ a \\ -5 \\ -10 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 5.$$

N 49

$$A = \begin{bmatrix} 3 & a & 4 & 4 \\ 1 & 1 & 3 & 1 \\ 2 & 4 & 1 & 1 \\ 1 & 1 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 2 \\ -11 \\ a \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 2.$$

N 50

$$A = \begin{bmatrix} 3 & 4 & a & 2 \\ 4 & 4 & 4 & 3 \\ 2 & 3 & 1 & 2 \\ 1 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 1 \\ a \\ 7 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 6.$$

N 51

$$A = \begin{bmatrix} 1 & 1 & 1 & 2 \\ a & 2 & 1 & 2 \\ 1 & 4 & 4 & 1 \\ 4 & 3 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 10 \\ 10 \\ 17 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 4.$$

N 52

$$A = \begin{bmatrix} a & 3 & 3 & 1 \\ 4 & 3 & 2 & 4 \\ 4 & 4 & 2 & 4 \\ 4 & 4 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ 2 \\ 0 \\ a \end{bmatrix}, \alpha = -2, \alpha = 3, \alpha = 4.$$

N 53

$$A = \begin{bmatrix} 4 & 4 & a & 3 \\ 2 & 1 & 3 & 1 \\ 2 & 4 & 3 & 3 \\ 3 & 4 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 5 \\ -1 \\ 1 \end{bmatrix}, \alpha = -4, \alpha = 3, \alpha = 6.$$

N 54

$$A = \begin{bmatrix} 2 & 1 & 2 & 4 \\ 2 & 4 & a & 4 \\ 4 & 2 & 4 & 4 \\ 4 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 16 \\ 6 \\ -5 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 5.$$

N 55

$$A = \begin{bmatrix} a & 4 & 1 & 3 \\ 3 & 2 & 1 & 1 \\ 4 & 3 & 1 & 3 \\ 2 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -20 \\ -16 \\ -16 \\ a \end{bmatrix}, \alpha = -6, \alpha = 4, \alpha = 5.$$

N 56

$$A = \begin{bmatrix} a & 2 & 2 & 2 \\ 1 & 1 & 4 & 1 \\ 4 & 3 & 4 & 4 \\ 1 & 1 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ a \\ -3 \\ -5 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 5.$$

N 57

$$A = \begin{bmatrix} 3 & 4 & a & 2 \\ 1 & 4 & 4 & 1 \\ 2 & 4 & 2 & 4 \\ 1 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ 17 \\ 6 \\ a \end{bmatrix}, \alpha = -4, \alpha = 2, \alpha = 6.$$

N 58

$$A = \begin{bmatrix} a & 2 & 4 & 4 \\ 3 & 1 & 4 & 4 \\ 4 & 2 & 1 & 3 \\ 4 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 1 \\ a \\ 3 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 7.$$

N 59

$$A = \begin{bmatrix} a & 4 & 2 & 2 \\ 1 & 1 & 1 & 4 \\ 3 & 4 & 1 & 4 \\ 4 & 3 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ 7 \\ a \\ 18 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 4.$$

N 60

$$A = \begin{bmatrix} 3 & 3 & a & 2 \\ 2 & 1 & 3 & 4 \\ 1 & 2 & 1 & 1 \\ 3 & 2 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ a \\ -4 \\ 0 \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 2.$$

N 61

$$A = \begin{bmatrix} 1 & 2 & 3 & a \\ 4 & 3 & 3 & 2 \\ 3 & 3 & 3 & 4 \\ 1 & 3 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ a \\ -4 \\ 4 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 3.$$

N 62

$$A = \begin{bmatrix} 1 & 1 & 1 & 3 \\ 3 & 3 & 1 & a \\ 1 & 3 & 1 & 1 \\ 1 & 4 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 5 \\ 2 \\ 5 \end{bmatrix}, \alpha = -4, \alpha = 2, \alpha = 5.$$

N 63

$$A = \begin{bmatrix} a & 4 & 1 & 1 \\ 2 & 1 & 3 & 2 \\ 2 & 3 & 3 & 3 \\ 1 & 2 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 2 \\ 6 \\ 4 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 5.$$

N 64

$$A = \begin{bmatrix} 2 & 1 & a & 1 \\ 1 & 1 & 1 & 4 \\ 3 & 4 & 1 & 4 \\ 1 & 3 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ a \\ 15 \\ 10 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 4.$$

N 65

$$A = \begin{bmatrix} a & 3 & 4 & 3 \\ 4 & 1 & 3 & 1 \\ 4 & 1 & 2 & 4 \\ 3 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 6 \\ 3 \\ 9 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 3.$$

N 66

$$A = \begin{bmatrix} 1 & 4 & a & 4 \\ 1 & 4 & 4 & 1 \\ 4 & 4 & 2 & 1 \\ 3 & 4 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ a \\ -5 \\ -7 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 7.$$

N 67

$$A = \begin{bmatrix} 1 & a & 4 & 2 \\ 2 & 2 & 2 & 3 \\ 2 & 2 & 1 & 2 \\ 2 & 3 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 11 \\ 6 \\ a \\ -2 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 6.$$

N 68

$$A = \begin{bmatrix} a & 3 & 1 & 2 \\ 1 & 3 & 3 & 3 \\ 3 & 3 & 2 & 3 \\ 3 & 1 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 10 \\ a \\ 9 \\ 0 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 5.$$

N 69

$$A = \begin{bmatrix} 1 & a & 2 & 3 \\ 2 & 4 & 1 & 4 \\ 2 & 2 & 1 & 2 \\ 4 & 2 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 10 \\ 6 \\ a \\ -2 \end{bmatrix}, \alpha = -4, \alpha = 2, \alpha = 5.$$

N 70

$$A = \begin{bmatrix} a & 2 & 2 & 4 \\ 1 & 1 & 3 & 3 \\ 4 & 1 & 1 & 4 \\ 2 & 2 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ 5 \\ 7 \\ a \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 3.$$

N 71

$$A = \begin{bmatrix} 1 & 1 & 1 & 3 \\ a & 1 & 1 & 1 \\ 4 & 3 & 3 & 2 \\ 3 & 4 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 10 \\ a \\ 2 \\ -6 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 7.$$

N 72

$$A = \begin{bmatrix} 1 & a & 4 & 1 \\ 1 & 4 & 2 & 1 \\ 4 & 4 & 3 & 3 \\ 3 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 2 \\ 6 \\ 6 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 7.$$

N 73

$$A = \begin{bmatrix} 2 & a & 2 & 3 \\ 4 & 3 & 3 & 1 \\ 3 & 2 & 4 & 1 \\ 4 & 2 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 6 \\ a \\ 4 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 5.$$

N 74

$$A = \begin{bmatrix} a & 2 & 4 & 4 \\ 4 & 1 & 2 & 1 \\ 2 & 1 & 1 & 2 \\ 1 & 4 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 1 \\ 0 \\ 0 \end{bmatrix}, \alpha = -6, \alpha = 2, \alpha = 5.$$

N 75

$$A = \begin{bmatrix} 1 & 2 & 2 & a \\ 4 & 2 & 4 & 4 \\ 4 & 1 & 2 & 3 \\ 2 & 1 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 10 \\ a \\ 3 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 2.$$

N 76

$$A = \begin{bmatrix} 3 & 2 & a & 1 \\ 1 & 1 & 1 & 1 \\ 4 & 1 & 3 & 1 \\ 3 & 3 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ a \\ 15 \\ -1 \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 5.$$

N 77

$$A = \begin{bmatrix} 1 & 4 & 1 & 1 \\ 1 & 1 & 4 & 4 \\ 3 & 4 & 1 & 1 \\ 1 & 4 & a & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -1 \\ 8 \\ 0 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 4.$$

N 78

$$A = \begin{bmatrix} a & 2 & 3 & 3 \\ 2 & 3 & 3 & 3 \\ 3 & 1 & 1 & 1 \\ 1 & 3 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ a \\ -1 \\ 8 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 7.$$

N 79

$$A = \begin{bmatrix} 1 & 1 & 4 & 3 \\ a & 3 & 1 & 1 \\ 2 & 2 & 3 & 4 \\ 2 & 1 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ a \\ -11 \\ -10 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 7.$$

N 80

$$A = \begin{bmatrix} 4 & a & 2 & 1 \\ 3 & 1 & 4 & 4 \\ 4 & 1 & 2 & 4 \\ 1 & 2 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 1 \\ -2 \\ 6 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 5.$$

N 81

$$A = \begin{bmatrix} 2 & 4 & a & 3 \\ 2 & 1 & 1 & 3 \\ 3 & 3 & 4 & 3 \\ 2 & 2 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -5 \\ -13 \\ -12 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 2.$$

N 82

$$A = \begin{bmatrix} 2 & 1 & 3 & 3 \\ a & 4 & 4 & 4 \\ 3 & 1 & 4 & 2 \\ 2 & 2 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ 16 \\ 12 \\ a \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 6.$$

N 83

$$A = \begin{bmatrix} 3 & 1 & 1 & a \\ 4 & 2 & 3 & 2 \\ 4 & 3 & 4 & 2 \\ 2 & 2 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 0 \\ 2 \\ a \end{bmatrix}, \alpha = -6, \alpha = 4, \alpha = 4.$$

N 84

$$A = \begin{bmatrix} a & 3 & 3 & 4 \\ 1 & 3 & 4 & 2 \\ 3 & 2 & 2 & 1 \\ 3 & 1 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 3 \\ a \\ 7 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 5.$$

N 85

$$A = \begin{bmatrix} a & 1 & 2 & 3 \\ 3 & 1 & 4 & 4 \\ 1 & 2 & 2 & 2 \\ 2 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 3 \\ 7 \\ 14 \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 3.$$

N 86

$$A = \begin{bmatrix} 2 & 3 & a & 4 \\ 4 & 4 & 2 & 2 \\ 3 & 3 & 2 & 1 \\ 1 & 3 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -11 \\ 0 \\ a \\ -14 \end{bmatrix}, \alpha = -3, \alpha = 1, \alpha = 5.$$

N 87

$$A = \begin{bmatrix} 2 & a & 2 & 3 \\ 3 & 3 & 3 & 2 \\ 1 & 2 & 2 & 4 \\ 1 & 3 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ a \\ 7 \\ 0 \end{bmatrix}, \alpha = -3, \alpha = 3, \alpha = 5.$$

N 88

$$A = \begin{bmatrix} 2 & a & 3 & 3 \\ 3 & 2 & 4 & 3 \\ 3 & 4 & 3 & 1 \\ 4 & 4 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 8 \\ -4 \\ -4 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 7.$$

N 89

$$A = \begin{bmatrix} a & 4 & 4 & 3 \\ 4 & 3 & 4 & 4 \\ 1 & 4 & 1 & 2 \\ 3 & 3 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ -6 \\ a \\ -6 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 7.$$

N 90

$$A = \begin{bmatrix} 1 & 1 & a & 3 \\ 3 & 2 & 2 & 1 \\ 4 & 4 & 1 & 1 \\ 1 & 3 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 10 \\ 19 \\ 10 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 3.$$

N 91

$$A = \begin{bmatrix} 4 & a & 4 & 3 \\ 1 & 3 & 3 & 2 \\ 4 & 3 & 3 & 4 \\ 3 & 2 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 6 \\ 0 \\ -6 \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 2.$$

N 92

$$A = \begin{bmatrix} a & 1 & 3 & 2 \\ 2 & 4 & 2 & 3 \\ 4 & 3 & 3 & 2 \\ 1 & 1 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ a \\ 8 \\ 6 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 7.$$

N 93

$$A = \begin{bmatrix} 4 & 2 & 3 & 2 \\ a & 4 & 4 & 2 \\ 4 & 1 & 3 & 1 \\ 2 & 3 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ a \\ 11 \\ 1 \end{bmatrix}, \alpha = -3, \alpha = 1, \alpha = 2.$$

N 94

$$A = \begin{bmatrix} a & 2 & 2 & 4 \\ 3 & 1 & 3 & 1 \\ 2 & 4 & 2 & 4 \\ 3 & 2 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ -6 \\ 6 \\ a \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 7.$$

N 95

$$A = \begin{bmatrix} 1 & 2 & 1 & a \\ 4 & 1 & 4 & 3 \\ 1 & 3 & 4 & 1 \\ 3 & 3 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 15 \\ 18 \\ 17 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 2.$$

N 96

$$A = \begin{bmatrix} 4 & 3 & 4 & 4 \\ 2 & 2 & 4 & 2 \\ 3 & a & 4 & 4 \\ 4 & 3 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 10 \\ -2 \\ -4 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 6.$$

N 97

$$A = \begin{bmatrix} 4 & 1 & 4 & 1 \\ a & 1 & 3 & 4 \\ 4 & 4 & 1 & 1 \\ 4 & 2 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ a \\ -7 \\ 2 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 4.$$

N 98

$$A = \begin{bmatrix} a & 4 & 2 & 3 \\ 2 & 1 & 2 & 1 \\ 4 & 4 & 1 & 1 \\ 2 & 2 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ a \\ 2 \\ -6 \end{bmatrix}, \alpha = -4, \alpha = 1, \alpha = 2.$$

N 99

$$A = \begin{bmatrix} 1 & 2 & 3 & 2 \\ a & 1 & 1 & 3 \\ 1 & 2 & 1 & 4 \\ 3 & 4 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ a \\ -2 \\ -5 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 7.$$

N 100

$$A = \begin{bmatrix} a & 4 & 1 & 2 \\ 3 & 2 & 2 & 3 \\ 2 & 1 & 2 & 3 \\ 2 & 4 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 7 \\ 7 \\ 4 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 2.$$

N 101

$$A = \begin{bmatrix} 1 & a & 2 & 2 \\ 4 & 1 & 4 & 2 \\ 4 & 1 & 3 & 2 \\ 1 & 3 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -2 \\ -4 \\ -2 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 5.$$

N 102

$$A = \begin{bmatrix} 2 & 3 & 2 & 2 \\ 3 & a & 1 & 3 \\ 2 & 1 & 4 & 2 \\ 3 & 1 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ -4 \\ a \\ 6 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 5.$$

N 103

$$A = \begin{bmatrix} 4 & 2 & 2 & a \\ 4 & 1 & 1 & 1 \\ 2 & 1 & 1 & 2 \\ 1 & 4 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 5 \\ a \\ 7 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 2.$$

N 104

$$A = \begin{bmatrix} 4 & 3 & 1 & 3 \\ a & 4 & 2 & 4 \\ 4 & 1 & 2 & 2 \\ 4 & 2 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ 18 \\ a \\ 14 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 2.$$

N 105

$$A = \begin{bmatrix} a & 1 & 3 & 2 \\ 2 & 4 & 4 & 1 \\ 3 & 2 & 4 & 1 \\ 4 & 3 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ -6 \\ -8 \\ a \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 6.$$

N 106

$$A = \begin{bmatrix} 3 & a & 1 & 4 \\ 1 & 3 & 2 & 1 \\ 1 & 3 & 1 & 1 \\ 3 & 3 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 10 \\ 9 \\ 8 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 3.$$

N 107

$$A = \begin{bmatrix} a & 1 & 1 & 4 \\ 4 & 3 & 4 & 2 \\ 1 & 2 & 2 & 3 \\ 2 & 2 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 11 \\ 22 \\ a \\ 8 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 6.$$

N 108

$$A = \begin{bmatrix} 1 & 1 & 4 & 3 \\ 1 & 1 & 1 & a \\ 4 & 2 & 1 & 2 \\ 4 & 2 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 7 \\ 22 \\ 16 \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 7.$$

N 109

$$A = \begin{bmatrix} 3 & 1 & 1 & a \\ 2 & 4 & 3 & 2 \\ 1 & 1 & 1 & 3 \\ 2 & 1 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 10 \\ 5 \\ 4 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 2.$$

N 110

$$A = \begin{bmatrix} a & 4 & 2 & 2 \\ 2 & 4 & 3 & 3 \\ 2 & 1 & 4 & 4 \\ 2 & 2 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 16 \\ 13 \\ -2 \\ a \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 2.$$

N 111

$$A = \begin{bmatrix} 1 & 2 & 2 & 1 \\ 3 & 3 & a & 3 \\ 1 & 4 & 3 & 4 \\ 2 & 1 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 7 \\ 12 \\ 5 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 2.$$

N 112

$$A = \begin{bmatrix} a & 3 & 4 & 2 \\ 2 & 2 & 2 & 2 \\ 1 & 2 & 3 & 3 \\ 4 & 1 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ 2 \\ -6 \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 6.$$

N 113

$$A = \begin{bmatrix} 4 & a & 2 & 2 \\ 2 & 1 & 4 & 1 \\ 4 & 3 & 3 & 4 \\ 1 & 2 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ -2 \\ a \\ -2 \end{bmatrix}, \alpha = -3, \alpha = 1, \alpha = 3.$$

N 114

$$A = \begin{bmatrix} 1 & 1 & a & 4 \\ 3 & 1 & 3 & 2 \\ 3 & 1 & 4 & 3 \\ 1 & 4 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 9 \\ 9 \\ 13 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 4.$$

N 115

$$A = \begin{bmatrix} 1 & 2 & 3 & 1 \\ a & 1 & 1 & 3 \\ 1 & 1 & 2 & 3 \\ 2 & 4 & 4 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 20 \\ 12 \\ 8 \end{bmatrix}, \alpha = -6, \alpha = 4, \alpha = 7.$$

N 116

$$A = \begin{bmatrix} 3 & a & 4 & 2 \\ 4 & 2 & 3 & 1 \\ 3 & 4 & 4 & 3 \\ 4 & 2 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ a \\ -1 \\ -4 \end{bmatrix}, \alpha = -4, \alpha = 2, \alpha = 3.$$

N 117

$$A = \begin{bmatrix} a & 4 & 4 & 3 \\ 4 & 1 & 3 & 2 \\ 2 & 4 & 2 & 3 \\ 4 & 3 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ 10 \\ 10 \\ a \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 6.$$

N 118

$$A = \begin{bmatrix} 1 & 3 & 4 & 4 \\ 4 & 3 & 1 & 1 \\ a & 1 & 4 & 3 \\ 4 & 3 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ a \\ -4 \\ -1 \end{bmatrix}, \alpha = -4, \alpha = 2, \alpha = 6.$$

N 119

$$A = \begin{bmatrix} 1 & a & 2 & 3 \\ 4 & 4 & 2 & 2 \\ 1 & 2 & 1 & 4 \\ 4 & 1 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 12 \\ a \\ 13 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 3.$$

N 120

$$A = \begin{bmatrix} a & 4 & 4 & 2 \\ 1 & 1 & 1 & 2 \\ 3 & 2 & 2 & 4 \\ 2 & 4 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 1 \\ 3 \\ 3 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 6.$$

N 121

$$A = \begin{bmatrix} 2 & 3 & 3 & a \\ 2 & 3 & 4 & 4 \\ 2 & 3 & 3 & 2 \\ 1 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 10 \\ 4 \\ 12 \end{bmatrix}, \alpha = -4, \alpha = 1, \alpha = 3.$$

N 122

$$A = \begin{bmatrix} a & 3 & 2 & 3 \\ 3 & 1 & 4 & 4 \\ 2 & 3 & 4 & 3 \\ 1 & 2 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ 3 \\ -4 \\ a \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 5.$$

N 123

$$A = \begin{bmatrix} 1 & a & 2 & 1 \\ 4 & 2 & 2 & 2 \\ 4 & 4 & 4 & 4 \\ 4 & 3 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ 0 \\ -8 \\ a \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 7.$$

N 124

$$A = \begin{bmatrix} 2 & 1 & 2 & 2 \\ 1 & a & 3 & 3 \\ 2 & 4 & 1 & 4 \\ 4 & 4 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ a \\ -4 \\ -6 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 6.$$

N 125

$$A = \begin{bmatrix} 1 & a & 3 & 1 \\ 2 & 1 & 3 & 4 \\ 2 & 4 & 2 & 1 \\ 2 & 4 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 6 \\ 6 \\ 6 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 2.$$

N 126

$$A = \begin{bmatrix} 1 & a & 4 & 3 \\ 4 & 3 & 2 & 2 \\ 1 & 1 & 3 & 4 \\ 1 & 4 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ a \\ 10 \\ -11 \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 5.$$

N 127

$$A = \begin{bmatrix} a & 2 & 2 & 2 \\ 2 & 2 & 3 & 2 \\ 4 & 1 & 1 & 2 \\ 2 & 2 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 11 \\ -1 \\ 9 \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 2.$$

N 128

$$A = \begin{bmatrix} 3 & 3 & 2 & 2 \\ 3 & 2 & 3 & a \\ 1 & 3 & 4 & 4 \\ 2 & 1 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ a \\ 25 \\ 15 \end{bmatrix}, \alpha = -4, \alpha = 1, \alpha = 7.$$

N 129

$$A = \begin{bmatrix} 3 & a & 2 & 4 \\ 4 & 2 & 4 & 2 \\ 3 & 3 & 3 & 3 \\ 1 & 4 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 19 \\ 14 \\ 15 \\ a \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 4.$$

N 130

$$A = \begin{bmatrix} 1 & 1 & 1 & 3 \\ 4 & 3 & 1 & 4 \\ 3 & a & 3 & 1 \\ 3 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 10 \\ 6 \\ a \\ -4 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 6.$$

N 131

$$A = \begin{bmatrix} a & 3 & 1 & 3 \\ 1 & 2 & 1 & 4 \\ 4 & 1 & 1 & 4 \\ 4 & 1 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ a \\ 6 \\ 19 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 3.$$

N 132

$$A = \begin{bmatrix} 4 & a & 2 & 2 \\ 3 & 1 & 4 & 3 \\ 4 & 1 & 1 & 1 \\ 4 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 6 \\ a \\ 8 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 7.$$

N 133

$$A = \begin{bmatrix} 3 & 1 & 2 & 2 \\ 3 & 1 & 2 & 3 \\ 1 & 3 & 1 & a \\ 1 & 1 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 4 \\ 12 \\ 4 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 6.$$

N 134

$$A = \begin{bmatrix} a & 1 & 2 & 2 \\ 3 & 3 & 1 & 3 \\ 3 & 4 & 2 & 2 \\ 2 & 1 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 7 \\ 10 \\ 3 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 3.$$

N 135

$$A = \begin{bmatrix} 4 & 3 & a & 2 \\ 2 & 1 & 4 & 2 \\ 2 & 1 & 2 & 4 \\ 2 & 4 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -4 \\ -2 \\ 5 \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 3.$$

N 136

$$A = \begin{bmatrix} 1 & 1 & 1 & a \\ 3 & 1 & 2 & 1 \\ 4 & 4 & 3 & 4 \\ 2 & 4 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ a \\ 17 \\ 17 \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 5.$$

N 137

$$A = \begin{bmatrix} a & 3 & 2 & 1 \\ 3 & 3 & 2 & 2 \\ 2 & 1 & 3 & 2 \\ 1 & 4 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -4 \\ 8 \\ 1 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 7.$$

N 138

$$A = \begin{bmatrix} a & 4 & 4 & 1 \\ 4 & 2 & 1 & 3 \\ 3 & 3 & 2 & 3 \\ 4 & 2 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ 7 \\ 3 \\ a \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 4.$$

N 139

$$A = \begin{bmatrix} 4 & 1 & a & 1 \\ 4 & 2 & 3 & 3 \\ 1 & 4 & 4 & 3 \\ 4 & 3 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ 0 \\ 17 \\ a \end{bmatrix}, \alpha = -4, \alpha = 3, \alpha = 7.$$

N 140

$$A = \begin{bmatrix} 3 & 3 & 2 & 1 \\ 2 & 1 & 2 & a \\ 1 & 2 & 4 & 3 \\ 1 & 4 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 11 \\ 15 \\ a \\ 6 \end{bmatrix}, \alpha = -6, \alpha = 4, \alpha = 2.$$

N 141

$$A = \begin{bmatrix} 2 & a & 2 & 3 \\ 2 & 1 & 2 & 4 \\ 1 & 2 & 2 & 3 \\ 4 & 1 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 7 \\ 6 \\ a \end{bmatrix}, \alpha = -3, \alpha = 3, \alpha = 2.$$

N 142

$$A = \begin{bmatrix} 2 & a & 1 & 2 \\ 3 & 4 & 2 & 1 \\ 1 & 3 & 2 & 2 \\ 3 & 3 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 7 \\ 0 \\ a \end{bmatrix}, \alpha = -4, \alpha = 3, \alpha = 5.$$

N 143

$$A = \begin{bmatrix} 2 & 2 & a & 1 \\ 2 & 3 & 2 & 2 \\ 4 & 1 & 4 & 3 \\ 2 & 4 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ -6 \\ 6 \end{bmatrix}, \alpha = -2, \alpha = 3, \alpha = 4.$$

N 144

$$A = \begin{bmatrix} a & 1 & 1 & 2 \\ 4 & 4 & 3 & 1 \\ 3 & 3 & 4 & 3 \\ 1 & 2 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 2 \\ 6 \\ 8 \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 6.$$

N 145

$$A = \begin{bmatrix} 3 & 2 & 1 & a \\ 2 & 1 & 4 & 4 \\ 3 & 3 & 4 & 4 \\ 3 & 1 & 4 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 4 \\ 0 \\ 8 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 4.$$

N 146

$$A = \begin{bmatrix} 2 & a & 2 & 4 \\ 2 & 4 & 2 & 4 \\ 3 & 2 & 2 & 2 \\ 1 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ 12 \\ a \\ 12 \end{bmatrix}, \alpha = -4, \alpha = 3, \alpha = 4.$$

N 147

$$A = \begin{bmatrix} 4 & 1 & 4 & 2 \\ 4 & a & 4 & 1 \\ 2 & 2 & 1 & 2 \\ 3 & 4 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 10 \\ 6 \\ 0 \\ a \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 2.$$

N 148

$$A = \begin{bmatrix} a & 3 & 1 & 1 \\ 2 & 4 & 1 & 1 \\ 4 & 2 & 4 & 3 \\ 1 & 2 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 10 \\ 4 \\ a \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 7.$$

N 149

$$A = \begin{bmatrix} a & 2 & 2 & 4 \\ 1 & 1 & 2 & 3 \\ 1 & 4 & 2 & 1 \\ 1 & 1 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -14 \\ -10 \\ a \\ -13 \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 6.$$

N 150

$$A = \begin{bmatrix} 2 & 2 & a & 2 \\ 4 & 4 & 3 & 4 \\ 1 & 4 & 1 & 1 \\ 4 & 3 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 8 \\ a \\ 4 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 4.$$

N 151

$$A = \begin{bmatrix} 1 & 1 & 1 & a \\ 4 & 2 & 4 & 1 \\ 3 & 3 & 3 & 1 \\ 3 & 2 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 21 \\ 17 \\ 12 \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 4.$$

N 152

$$A = \begin{bmatrix} a & 3 & 1 & 2 \\ 3 & 1 & 3 & 3 \\ 4 & 2 & 4 & 1 \\ 4 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 5 \\ -1 \\ a \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 5.$$

N 153

$$A = \begin{bmatrix} 2 & 1 & a & 4 \\ 1 & 4 & 3 & 3 \\ 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ a \\ 10 \\ 4 \end{bmatrix}, \alpha = -2, \alpha = 3, \alpha = 6.$$

N 154

$$A = \begin{bmatrix} 1 & 2 & a & 2 \\ 3 & 2 & 1 & 1 \\ 3 & 4 & 4 & 1 \\ 1 & 3 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 7 \\ 6 \\ 8 \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 7.$$

N 155

$$A = \begin{bmatrix} a & 4 & 1 & 2 \\ 3 & 2 & 3 & 1 \\ 2 & 4 & 1 & 2 \\ 4 & 2 & 1 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ a \\ 10 \\ 2 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 5.$$

N 156

$$A = \begin{bmatrix} 1 & 4 & 3 & 3 \\ a & 1 & 1 & 4 \\ 2 & 3 & 2 & 4 \\ 4 & 1 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 14 \\ 12 \\ a \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 7.$$

N 157

$$A = \begin{bmatrix} 4 & 1 & a & 2 \\ 3 & 4 & 4 & 2 \\ 1 & 3 & 2 & 1 \\ 2 & 2 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 12 \\ 8 \\ a \\ 0 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 2.$$

N 158

$$A = \begin{bmatrix} 2 & a & 1 & 2 \\ 3 & 1 & 3 & 2 \\ 1 & 4 & 2 & 2 \\ 2 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 17 \\ -2 \\ 12 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 4.$$

N 159

$$A = \begin{bmatrix} a & 1 & 2 & 4 \\ 2 & 4 & 4 & 2 \\ 3 & 3 & 1 & 1 \\ 3 & 2 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ a \\ 4 \\ 4 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 7.$$

N 160

$$A = \begin{bmatrix} a & 4 & 3 & 4 \\ 3 & 1 & 1 & 3 \\ 1 & 1 & 2 & 4 \\ 4 & 3 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ -3 \\ 3 \end{bmatrix}, \alpha = -4, \alpha = 3, \alpha = 2.$$

N 161

$$A = \begin{bmatrix} 4 & a & 4 & 1 \\ 1 & 4 & 3 & 4 \\ 2 & 1 & 4 & 2 \\ 1 & 1 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 2 \\ -3 \\ a \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 3.$$

N 162

$$A = \begin{bmatrix} 4 & a & 4 & 4 \\ 1 & 2 & 4 & 3 \\ 4 & 2 & 4 & 4 \\ 2 & 1 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -17 \\ a \\ -14 \\ -13 \end{bmatrix}, \alpha = -5, \alpha = 1, \alpha = 4.$$

N 163

$$A = \begin{bmatrix} a & 1 & 2 & 2 \\ 3 & 3 & 1 & 2 \\ 1 & 1 & 3 & 3 \\ 3 & 4 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -5 \\ 6 \\ -1 \end{bmatrix}, \alpha = -6, \alpha = 2, \alpha = 3.$$

N 164

$$A = \begin{bmatrix} 2 & a & 1 & 2 \\ 3 & 3 & 4 & 3 \\ 1 & 2 & 4 & 3 \\ 4 & 4 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ a \\ 5 \\ -4 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 6.$$

N 165

$$A = \begin{bmatrix} 1 & a & 1 & 2 \\ 3 & 3 & 4 & 3 \\ 4 & 2 & 1 & 1 \\ 1 & 3 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ -2 \\ -10 \\ a \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 7.$$

N 166

$$A = \begin{bmatrix} 2 & 1 & 3 & 1 \\ 1 & 2 & 3 & 1 \\ a & 3 & 1 & 1 \\ 3 & 2 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ a \\ 15 \\ 16 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 7.$$

N 167

$$A = \begin{bmatrix} 2 & 2 & 4 & a \\ 1 & 2 & 2 & 4 \\ 1 & 4 & 2 & 4 \\ 4 & 2 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -8 \\ -4 \\ -6 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 3.$$

N 168

$$A = \begin{bmatrix} 2 & 2 & a & 4 \\ 2 & 4 & 3 & 3 \\ 3 & 1 & 3 & 3 \\ 1 & 3 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -5 \\ -2 \\ a \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 4.$$

N 169

$$A = \begin{bmatrix} 1 & a & 3 & 4 \\ 2 & 4 & 4 & 2 \\ 1 & 3 & 2 & 4 \\ 4 & 3 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ -4 \\ a \\ -4 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 6.$$

N 170

$$A = \begin{bmatrix} 3 & 1 & 4 & 1 \\ 4 & 1 & 1 & 3 \\ a & 3 & 2 & 3 \\ 4 & 2 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ -7 \\ 5 \\ a \end{bmatrix}, \alpha = -1, \alpha = 2, \alpha = 4.$$

N 171

$$A = \begin{bmatrix} 1 & 1 & 1 & 2 \\ 1 & 1 & 3 & 2 \\ a & 2 & 4 & 4 \\ 1 & 4 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 4 \\ 8 \\ 16 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 7.$$

N 172

$$A = \begin{bmatrix} a & 1 & 1 & 1 \\ 3 & 2 & 1 & 3 \\ 4 & 4 & 1 & 3 \\ 2 & 3 & 3 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ 9 \\ 11 \\ a \end{bmatrix}, \alpha = -6, \alpha = 3, \alpha = 7.$$

N 173

$$A = \begin{bmatrix} 1 & 1 & 3 & a \\ 4 & 2 & 1 & 2 \\ 3 & 3 & 3 & 1 \\ 1 & 4 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 11 \\ 10 \\ 0 \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 5.$$

N 174

$$A = \begin{bmatrix} 3 & 4 & 4 & 2 \\ 3 & 3 & 3 & 3 \\ a & 1 & 3 & 4 \\ 3 & 1 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 13 \\ 9 \\ 12 \\ a \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 3.$$

N 175

$$A = \begin{bmatrix} a & 3 & 4 & 1 \\ 2 & 1 & 4 & 1 \\ 1 & 3 & 1 & 1 \\ 4 & 3 & 3 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 10 \\ a \\ 13 \\ 18 \end{bmatrix}, \alpha = -6, \alpha = 2, \alpha = 6.$$

N 176

$$A = \begin{bmatrix} a & 2 & 4 & 2 \\ 3 & 4 & 3 & 2 \\ 4 & 2 & 2 & 2 \\ 2 & 1 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 17 \\ 18 \\ 1 \end{bmatrix}, \alpha = -1, \alpha = 1, \alpha = 5.$$

N 177

$$A = \begin{bmatrix} 4 & 4 & a & 2 \\ 4 & 2 & 1 & 3 \\ 4 & 3 & 4 & 4 \\ 2 & 1 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ -5 \\ -2 \end{bmatrix}, \alpha = -1, \alpha = 3, \alpha = 3.$$

N 178

$$A = \begin{bmatrix} a & 1 & 2 & 3 \\ 1 & 3 & 3 & 2 \\ 4 & 4 & 2 & 1 \\ 3 & 1 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ a \\ 7 \\ 14 \end{bmatrix}, \alpha = -3, \alpha = 2, \alpha = 5.$$

N 179

$$A = \begin{bmatrix} a & 2 & 2 & 1 \\ 2 & 1 & 1 & 3 \\ 3 & 1 & 2 & 4 \\ 1 & 1 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 11 \\ 2 \\ a \\ 3 \end{bmatrix}, \alpha = -5, \alpha = 3, \alpha = 2.$$

N 180

$$A = \begin{bmatrix} 3 & a & 3 & 2 \\ 3 & 3 & 2 & 4 \\ 3 & 3 & 1 & 3 \\ 1 & 3 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 12 \\ 9 \\ -1 \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 3.$$

N 181

$$A = \begin{bmatrix} a & 3 & 1 & 1 \\ 4 & 1 & 4 & 3 \\ 4 & 2 & 1 & 4 \\ 1 & 1 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ -2 \\ 2 \\ a \end{bmatrix}, \alpha = -6, \alpha = 4, \alpha = 4.$$

N 182

$$A = \begin{bmatrix} 2 & 1 & a & 4 \\ 2 & 1 & 1 & 1 \\ 2 & 3 & 4 & 2 \\ 4 & 4 & 1 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 16 \\ a \\ 6 \\ -3 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 3.$$

N 183

$$A = \begin{bmatrix} 4 & a & 3 & 2 \\ 4 & 2 & 3 & 3 \\ 4 & 4 & 1 & 4 \\ 3 & 3 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 9 \\ 3 \\ 9 \end{bmatrix}, \alpha = -2, \alpha = 3, \alpha = 5.$$

N 184

$$A = \begin{bmatrix} 4 & 1 & a & 1 \\ 3 & 4 & 4 & 1 \\ 4 & 3 & 4 & 2 \\ 1 & 2 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ a \\ 2 \\ 7 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 6.$$

N 185

$$A = \begin{bmatrix} 2 & 3 & 2 & a \\ 3 & 3 & 4 & 1 \\ 4 & 4 & 2 & 4 \\ 3 & 3 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 13 \\ a \\ 16 \\ 12 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 5.$$

N 186

$$A = \begin{bmatrix} a & 4 & 2 & 2 \\ 1 & 3 & 2 & 1 \\ 3 & 1 & 1 & 3 \\ 2 & 4 & 1 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ 2 \\ a \\ -2 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 5.$$

N 187

$$A = \begin{bmatrix} a & 4 & 3 & 1 \\ 1 & 4 & 4 & 3 \\ 1 & 1 & 4 & 2 \\ 3 & 1 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ 9 \\ 7 \\ a \end{bmatrix}, \alpha = -5, \alpha = 2, \alpha = 3.$$

N 188

$$A = \begin{bmatrix} 1 & 2 & 2 & a \\ 4 & 3 & 1 & 2 \\ 4 & 1 & 2 & 2 \\ 2 & 4 & 2 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 8 \\ 5 \\ 10 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 6.$$

N 189

$$A = \begin{bmatrix} a & 1 & 3 & 3 \\ 2 & 1 & 3 & 3 \\ 1 & 1 & 2 & 3 \\ 4 & 4 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 5 \\ a \\ 12 \end{bmatrix}, \alpha = -1, \alpha = 4, \alpha = 3.$$

N 190

$$A = \begin{bmatrix} a & 4 & 3 & 2 \\ 1 & 2 & 1 & 3 \\ 4 & 3 & 2 & 2 \\ 1 & 4 & 4 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 1 \\ a \\ 6 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 4.$$

N 191

$$A = \begin{bmatrix} 3 & a & 2 & 1 \\ 3 & 3 & 2 & 1 \\ 3 & 2 & 1 & 4 \\ 2 & 4 & 4 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 11 \\ 6 \\ a \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 7.$$

N 192

$$A = \begin{bmatrix} 1 & 1 & 1 & 2 \\ 2 & 2 & a & 1 \\ 1 & 4 & 4 & 4 \\ 3 & 2 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ 0 \\ a \\ 4 \end{bmatrix}, \alpha = -5, \alpha = 4, \alpha = 3.$$

N 193

$$A = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & a & 3 \\ 1 & 3 & 4 & 1 \\ 2 & 4 & 2 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 13 \\ 17 \\ 8 \end{bmatrix}, \alpha = -3, \alpha = 3, \alpha = 2.$$

N 194

$$A = \begin{bmatrix} 3 & 3 & a & 1 \\ 2 & 2 & 4 & 3 \\ 1 & 1 & 2 & 3 \\ 3 & 4 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 2 \\ a \\ 7 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 2.$$

N 195

$$A = \begin{bmatrix} 2 & a & 1 & 4 \\ 1 & 3 & 2 & 4 \\ 1 & 3 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ -1 \\ 1 \\ 1 \end{bmatrix}, \alpha = -3, \alpha = 4, \alpha = 2.$$

N 196

$$A = \begin{bmatrix} a & 4 & 3 & 4 \\ 4 & 1 & 3 & 3 \\ 1 & 1 & 1 & 2 \\ 1 & 2 & 2 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ a \\ 0 \\ -3 \end{bmatrix}, \alpha = -6, \alpha = 1, \alpha = 5.$$

N 197

$$A = \begin{bmatrix} 3 & a & 3 & 2 \\ 2 & 3 & 4 & 4 \\ 1 & 3 & 3 & 2 \\ 4 & 1 & 2 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 11 \\ a \\ 11 \\ -2 \end{bmatrix}, \alpha = -2, \alpha = 4, \alpha = 7.$$

N 198

$$A = \begin{bmatrix} 3 & a & 3 & 3 \\ 3 & 1 & 4 & 3 \\ 2 & 3 & 1 & 3 \\ 4 & 4 & 3 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ 2 \\ 18 \end{bmatrix}, \alpha = -2, \alpha = 2, \alpha = 7.$$

N 199

$$A = \begin{bmatrix} a & 2 & 2 & 4 \\ 2 & 3 & 4 & 4 \\ 1 & 3 & 1 & 3 \\ 3 & 1 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} a \\ 0 \\ -4 \\ 0 \end{bmatrix}, \alpha = -2, \alpha = 1, \alpha = 6.$$

N 200

$$A = \begin{bmatrix} 1 & 2 & 2 & 1 \\ 3 & 2 & 2 & 1 \\ 2 & 3 & 2 & 1 \\ 1 & 1 & a & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ 15 \\ 12 \\ a \end{bmatrix}, \alpha = -4, \alpha = 4, \alpha = 3.$$