Индивидуальное задание 17.
Дана СЛАУ $AX = b$, Решить СЛАУ с помощью QR разложения матрицы A.
N1

$$A = \begin{bmatrix} 5 & -6 & 2 & 2 \\ -1 & -7 & -6 & -2 \\ 1 & -17 & -12 & -9 \\ 2 & -10 & -6 & -7 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ 6 \\ 15 \\ 14 \end{bmatrix}.$$

N2

$$A = \begin{bmatrix} -1 & 2 & 1 & 8 \\ -7 & 0 & 9 & -6 \\ -7 & -4 & 18 & -4 \\ 0 & -4 & 9 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ -2 \\ 2 \\ 7 \end{bmatrix}.$$

N3

$$A = \begin{bmatrix} -1 & -2 & -9 & 8 \\ 4 & -5 & -3 & -6 \\ 3 & -17 & -13 & 4 \\ -1 & -12 & -10 & 10 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ 9 \\ 19 \\ 11 \end{bmatrix}.$$

N4

$$A = \begin{bmatrix} 5 & 3 & 5 & -7 \\ -7 & 0 & 5 & -6 \\ -9 & -3 & 16 & -19 \\ -2 & -3 & 11 & -13 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ -4 \\ -6 \\ 3 \end{bmatrix}.$$

N5

$$A = \begin{bmatrix} -8 & 4 & -3 & -4 \\ 0 & -9 & -1 & 7 \\ -5 & -18 & -2 & 16 \\ -5 & -9 & -1 & 9 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 9 \\ 3 \\ -5 \end{bmatrix}.$$

N6

$$A = \begin{bmatrix} 8 & -8 & 3 & -9 \\ 3 & 6 & -7 & 5 \\ 16 & -2 & -9 & 1 \\ 13 & -8 & -2 & -4 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ -2 \\ -7 \\ -2 \end{bmatrix}.$$

N7

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

N8

$$A = \begin{bmatrix} -4 & -2 & -5 & 2 \\ -6 & 8 & 3 & -6 \\ -12 & 6 & -3 & -16 \\ -6 & -2 & -6 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ 6 \\ 0 \\ 0 \end{bmatrix}.$$

N9

$$A = \begin{bmatrix} -3 & -6 & 6 & -4 \\ -1 & 2 & -6 & -2 \\ -1 & -3 & 2 & -13 \\ 0 & -5 & 8 & -11 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ -4 \\ 1 \\ 8 \end{bmatrix}.$$

N10

$$A = \begin{bmatrix} -1 & -2 & -2 & 9 \\ -9 & 2 & -2 & 8 \\ -15 & 11 & 2 & 26 \\ -6 & 9 & 4 & 18 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ 6 \\ 4 \\ 4 \end{bmatrix}.$$

N11

$$A = \begin{bmatrix} 3 & -1 & -9 & 1 \\ -9 & -8 & -3 & 7 \\ -10 & -23 & -15 & 19 \\ -1 & -15 & -12 & 12 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 7 \\ 5 \\ -1 \end{bmatrix}.$$

N12

$$A = \begin{bmatrix} 9 & -1 & 6 & -1 \\ -5 & -3 & 6 & -9 \\ -10 & -4 & 20 & -11 \\ -5 & -1 & 14 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ -4 \\ -2 \\ 5 \end{bmatrix}.$$

N13

$$A = \begin{bmatrix} -2 & 3 & 1 & 0 \\ -7 & -1 & 2 & 0 \\ -18 & -5 & 5 & 3 \\ -11 & -4 & 3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 5 \\ 13 \\ 12 \end{bmatrix}.$$

N14

$$A = \begin{bmatrix} 8 & -7 & 0 & 1 \\ 4 & 4 & 4 & -3 \\ 23 & 10 & 5 & -2 \\ 19 & 6 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ -3 \\ 8 \\ 17 \end{bmatrix}.$$

N15

$$A = \begin{bmatrix} 5 & -3 & 4 & 1 \\ 4 & -4 & -2 & -2 \\ 15 & -16 & 5 & -6 \\ 11 & -12 & 7 & -4 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ -7 \\ -9 \\ 0 \end{bmatrix}.$$

N16

$$A = \begin{bmatrix} -9 & 6 & -9 & 4 \\ 5 & 0 & 0 & -6 \\ -1 & 10 & -15 & -7 \\ -6 & 10 & -15 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ 1 \\ -2 \\ 1 \end{bmatrix}.$$

N17

$$A = \begin{bmatrix} 4 & -2 & 4 & -3 \\ 7 & 0 & -2 & -9 \\ 14 & -1 & -9 & -25 \\ 7 & -1 & -7 & -16 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ -1 \\ -8 \\ -5 \end{bmatrix}.$$

N18

$$A = \begin{bmatrix} -4 & -2 & -8 & 5 \\ -5 & -1 & 8 & 1 \\ -5 & -5 & 14 & 12 \\ 0 & -4 & 6 & 11 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ 6 \\ 13 \\ 8 \end{bmatrix}.$$

N19

$$A = \begin{bmatrix} -1 & -3 & -8 & -9 \\ 6 & 5 & -3 & -2 \\ 16 & -2 & -18 & -16 \\ 10 & -7 & -15 & -14 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ 4 \\ -2 \\ 0 \end{bmatrix}.$$

N20

$$A = \begin{bmatrix} 3 & -9 & -3 & 7 \\ 4 & -6 & -2 & 7 \\ 15 & -14 & -3 & 24 \\ 11 & -8 & -1 & 17 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 2 \\ -1 \\ 3 \end{bmatrix}.$$

N21

$$A = \begin{bmatrix} -4 & 8 & -1 & 3 \\ -2 & 9 & -5 & -6 \\ -12 & 30 & -8 & -12 \\ -10 & 21 & -3 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 7 \\ 16 \\ 15 \end{bmatrix}.$$

N22

$$A = \begin{bmatrix} 1 & 2 & -3 & -3 \\ 7 & 9 & 6 & -7 \\ 18 & 14 & 18 & -13 \\ 11 & 5 & 12 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ 2 \\ 2 \\ 3 \end{bmatrix}.$$

N23

$$A = \begin{bmatrix} 7 & -7 & 1 & -8 \\ -3 & 8 & 3 & 8 \\ 7 & 15 & 15 & 9 \\ 10 & 7 & 12 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ -5 \\ -16 \\ -8 \end{bmatrix}.$$

N24

$$A = \begin{bmatrix} -7 & 6 & -6 & 9 \\ -6 & -8 & -9 & -1 \\ -14 & -11 & -33 & 11 \\ -8 & -3 & -24 & 12 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ 5 \\ 13 \\ 12 \end{bmatrix}.$$

N25

$$A = \begin{bmatrix} 1 & -8 & -6 & 2 \\ 4 & 2 & -8 & -6 \\ 16 & 1 & -29 & -3 \\ 12 & -1 & -21 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -4 \\ -1 \\ 8 \end{bmatrix}.$$

N26

$$A = \begin{bmatrix} -5 & 1 & -8 & -6 \\ -9 & -4 & -5 & -8 \\ -26 & -5 & -12 & -16 \\ -17 & -1 & -7 & -8 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ -2 \\ 0 \\ 4 \end{bmatrix}.$$

N27

$$A = \begin{bmatrix} 8 & 9 & 7 & -5 \\ -7 & -4 & -1 & -5 \\ -9 & -4 & -1 & -17 \\ -2 & 0 & 0 & -12 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 3 \\ -8 \\ -6 \end{bmatrix}.$$

N28

$$A = \begin{bmatrix} 8 & -3 & 9 & -2 \\ -4 & 3 & 5 & -1 \\ -8 & 3 & 19 & -2 \\ -4 & 0 & 14 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ 5 \\ 10 \\ 11 \end{bmatrix}.$$

N29

$$A = \begin{bmatrix} 6 & -9 & 9 & -8 \\ 1 & -8 & 0 & 6 \\ 7 & -30 & 10 & 0 \\ 6 & -22 & 10 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ -9 \\ -8 \\ 7 \end{bmatrix}.$$

N30

$$A = \begin{bmatrix} 1 & -3 & -9 & 6 \\ -2 & -4 & 4 & 0 \\ -7 & -19 & 3 & 0 \\ -5 & -15 & -1 & 0 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ 5 \\ 10 \\ 6 \end{bmatrix}.$$

N31

$$A = \begin{bmatrix} 3 & 1 & 0 & -8 \\ -4 & -7 & 1 & 4 \\ -14 & -15 & 7 & 4 \\ -10 & -8 & 6 & 0 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ -8 \\ -23 \\ -12 \end{bmatrix}.$$

N32

$$A = \begin{bmatrix} -1 & 7 & -1 & -2 \\ -8 & 4 & -1 & 8 \\ -11 & 24 & -12 & 23 \\ -3 & 20 & -11 & 15 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 0 \\ -11 \\ -9 \end{bmatrix}.$$

N33

$$A = \begin{bmatrix} 8 & -4 & -9 & 5 \\ 3 & 5 & 5 & -8 \\ 20 & 3 & 1 & -9 \\ 17 & -2 & -4 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ -7 \\ 2 \\ 12 \end{bmatrix}.$$

N34

$$A = \begin{bmatrix} -5 & 3 & 2 & -8 \\ -6 & 4 & 8 & 5 \\ -8 & 9 & 9 & -5 \\ -2 & 5 & 1 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -9 \\ -26 \\ -14 \end{bmatrix}.$$

N35

$$A = \begin{bmatrix} 0 & 4 & -2 & 1 \\ 9 & -9 & 7 & 2 \\ 25 & -12 & 14 & 1 \\ 16 & -3 & 7 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 1 \\ 6 \\ 11 \end{bmatrix}.$$

N36

$$A = \begin{bmatrix} -8 & 6 & 2 & -9 \\ -7 & 3 & 0 & -6 \\ -24 & 10 & 11 & -26 \\ -17 & 7 & 11 & -20 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ -5 \\ -7 \\ 1 \end{bmatrix}.$$

N37

$$A = \begin{bmatrix} -1 & -1 & 4 & 9 \\ -5 & -3 & 3 & -6 \\ -6 & -5 & 13 & 6 \\ -1 & -2 & 10 & 12 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 6 \\ 8 \\ 4 \end{bmatrix}.$$

N38

$$A = \begin{bmatrix} 0 & -8 & 6 & 7 \\ -8 & 6 & 0 & 7 \\ -20 & 12 & 8 & 16 \\ -12 & 6 & 8 & 9 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -5 \\ -10 \\ 0 \end{bmatrix}.$$

N39

$$A = \begin{bmatrix} -3 & 7 & -7 & 5 \\ -4 & 1 & -5 & -7 \\ -8 & 9 & -22 & -5 \\ -4 & 8 & -17 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ 0 \\ 9 \\ 12 \end{bmatrix}.$$

N40

$$A = \begin{bmatrix} 0 & 3 & -2 & -3 \\ 8 & 4 & -7 & -4 \\ 22 & 3 & -20 & -5 \\ 14 & -1 & -13 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 5 \\ 15 \\ 11 \end{bmatrix}.$$

N41

$$A = \begin{bmatrix} 3 & 5 & -1 & 0 \\ 8 & 3 & -1 & 6 \\ 11 & 10 & 5 & 8 \\ 3 & 7 & 6 & 2 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 7 \\ 17 \\ 14 \end{bmatrix}.$$

N42

$$A = \begin{bmatrix} -8 & -8 & -9 & -6 \\ 6 & -6 & -1 & 2 \\ -2 & -11 & -5 & 6 \\ -8 & -5 & -4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ 3 \\ -3 \\ -1 \end{bmatrix}.$$

N43

$$A = \begin{bmatrix} -5 & 1 & 3 & 1 \\ -5 & 2 & -1 & -1 \\ -22 & -1 & 10 & -4 \\ -17 & -3 & 11 & -3 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 7 \\ 14 \\ 8 \end{bmatrix}.$$

N44

$$A = \begin{bmatrix} 0 & -3 & 1 & 8 \\ 0 & -7 & 5 & -3 \\ 8 & -13 & 17 & -2 \\ 8 & -6 & 12 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 2 \\ -1 \\ 1 \end{bmatrix}.$$

N45

$$A = \begin{bmatrix} 0 & 5 & -6 & -5 \\ -8 & -6 & -9 & -9 \\ -22 & -13 & -33 & -22 \\ -14 & -7 & -24 & -13 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 9 \\ 16 \\ 12 \end{bmatrix}.$$

N46

$$A = \begin{bmatrix} 7 & -2 & 2 & 9 \\ 5 & 3 & 3 & 0 \\ 24 & -2 & 1 & 0 \\ 19 & -5 & -2 & 0 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ -9 \\ -22 \\ -12 \end{bmatrix}.$$

N47

$$A = \begin{bmatrix} 3 & 6 & -6 & -8 \\ 1 & -8 & -3 & -6 \\ -2 & -19 & -8 & -27 \\ -3 & -11 & -5 & -21 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ 5 \\ 21 \\ 18 \end{bmatrix}.$$

N48

$$A = \begin{bmatrix} -1 & -6 & 1 & -2 \\ -4 & 9 & -4 & -2 \\ -8 & 20 & -16 & -1 \\ -4 & 11 & -12 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ 5 \\ -7 \\ -9 \end{bmatrix}.$$

N49

$$A = \begin{bmatrix} 0 & 6 & 2 & 9 \\ -9 & 8 & -9 & -8 \\ -11 & 24 & -15 & -11 \\ -2 & 16 & -6 & -3 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -1 \\ -4 \\ -2 \end{bmatrix}.$$

N50

$$A = \begin{bmatrix} -8 & -8 & 6 & 4 \\ -6 & -6 & 7 & -4 \\ -29 & -24 & 26 & -5 \\ -23 & -18 & 19 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -4 \\ -16 \\ -10 \end{bmatrix}.$$

N51

$$A = \begin{bmatrix} 3 & 7 & -6 & -9 \\ -7 & -3 & -1 & 6 \\ -10 & -2 & -8 & -1 \\ -3 & 1 & -7 & -7 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ 1 \\ 2 \\ 5 \end{bmatrix}.$$

N52

$$A = \begin{bmatrix} -7 & -8 & -4 & 6 \\ 1 & -7 & 4 & 5 \\ 1 & -20 & 6 & 14 \\ 0 & -13 & 2 & 9 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ 3 \\ 4 \\ 5 \end{bmatrix}.$$

N53

$$A = \begin{bmatrix} 0 & 1 & 9 & -9 \\ -9 & -2 & 5 & -9 \\ -13 & -6 & 14 & -26 \\ -4 & -4 & 9 & -17 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ 6 \\ 20 \\ 18 \end{bmatrix}.$$

N54

$$A = \begin{bmatrix} -8 & 8 & -7 & 6 \\ 7 & -1 & -2 & 2 \\ 14 & -2 & -9 & 16 \\ 7 & -1 & -7 & 14 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ -7 \\ -13 \\ -4 \end{bmatrix}.$$

N55

$$A = \begin{bmatrix} -3 & 9 & 1 & 5 \\ -9 & -4 & -2 & -8 \\ -22 & -4 & 3 & -11 \\ -13 & 0 & 5 & -3 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 2 \\ -14 \\ -10 \end{bmatrix}.$$

N56

$$A = \begin{bmatrix} 4 & -5 & -9 & -4 \\ -3 & -4 & -4 & -3 \\ -4 & -11 & -20 & -19 \\ -1 & -7 & -16 & -16 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ 8 \\ 4 \\ -2 \end{bmatrix}.$$

N57

$$A = \begin{bmatrix} 4 & -5 & -8 & 6 \\ -2 & -7 & -3 & -3 \\ 7 & -27 & -16 & -5 \\ 9 & -20 & -13 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -9 \\ -20 \\ -10 \end{bmatrix}.$$

N58

$$A = \begin{bmatrix} -2 & 0 & 7 & 7 \\ -9 & -6 & 4 & 2 \\ -15 & -10 & 18 & 17 \\ -6 & -4 & 14 & 15 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 9 \\ 21 \\ 17 \end{bmatrix}.$$

N59

$$A = \begin{bmatrix} 0 & 9 & 0 & -9 \\ 0 & -7 & 7 & 5 \\ 7 & -3 & 15 & 8 \\ 7 & 4 & 8 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 7 \\ -4 \\ -7 \end{bmatrix}.$$

N60

$$A = \begin{bmatrix} -6 & 3 & 5 & 1 \\ -8 & 5 & -9 & 5 \\ -19 & 4 & -10 & 10 \\ -11 & -1 & -1 & 5 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ 2 \\ 1 \\ 0 \end{bmatrix}.$$

N61

$$A = \begin{bmatrix} 0 & 8 & -4 & -7 \\ 8 & 2 & 1 & 4 \\ 20 & 20 & -6 & 9 \\ 12 & 18 & -7 & 5 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ 4 \\ 4 \\ 5 \end{bmatrix}.$$

N62

$$A = \begin{bmatrix} 5 & -2 & -2 & 9 \\ -6 & -2 & -1 & 0 \\ -2 & -1 & -1 & 12 \\ 4 & 1 & 0 & 12 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ -3 \\ -13 \\ -7 \end{bmatrix}.$$

N63

$$A = \begin{bmatrix} -4 & 8 & -7 & -6 \\ 1 & -3 & 5 & 8 \\ 6 & 0 & 7 & 6 \\ 5 & 3 & 2 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 0 \\ -1 \\ 5 \end{bmatrix}.$$

N64

$$A = \begin{bmatrix} 8 & 2 & -2 & 1 \\ 2 & -7 & -3 & 7 \\ 12 & -8 & -1 & 12 \\ 10 & -1 & 2 & 5 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -9 \\ -27 \\ -15 \end{bmatrix}.$$

N65

$$A = \begin{bmatrix} 6 & 2 & -6 & -5 \\ 8 & -3 & 1 & 2 \\ 17 & -10 & 4 & -3 \\ 9 & -7 & 3 & -5 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ -2 \\ -16 \\ -11 \end{bmatrix}.$$

N66

$$A = \begin{bmatrix} -8 & 1 & 6 & -5 \\ 8 & -1 & 8 & 9 \\ 6 & -7 & 30 & 8 \\ -2 & -6 & 22 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 8 \\ 8 \\ 4 \end{bmatrix}.$$

N67

$$A = \begin{bmatrix} -1 & 1 & -1 & -9 \\ -2 & -8 & -7 & 0 \\ -6 & -11 & -13 & -2 \\ -4 & -3 & -6 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ -7 \\ -14 \\ -5 \end{bmatrix}.$$

N68

$$A = \begin{bmatrix} 1 & -9 & -4 & -2 \\ 2 & 0 & -8 & 7 \\ 0 & -7 & -27 & 11 \\ -2 & -7 & -19 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 6 \\ 11 \\ 8 \end{bmatrix}.$$

N69

$$A = \begin{bmatrix} -9 & 4 & -9 & -5 \\ -5 & -1 & 9 & -1 \\ -15 & -6 & 0 & -10 \\ -10 & -5 & -9 & -9 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ -3 \\ -6 \\ 1 \end{bmatrix}.$$

N70

$$A = \begin{bmatrix} 2 & -8 & -4 & -6 \\ -2 & 6 & 5 & -9 \\ -10 & -1 & 9 & -31 \\ -8 & -7 & 4 & -22 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ 2 \\ -4 \\ -2 \end{bmatrix}.$$

N71

$$A = \begin{bmatrix} 2 & 7 & -5 & 7 \\ -7 & 1 & -9 & -4 \\ -10 & 9 & -19 & -10 \\ -3 & 8 & -10 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ -7 \\ -8 \\ 2 \end{bmatrix}.$$

N72

$$A = \begin{bmatrix} 7 & 1 & 2 & 2 \\ 3 & -1 & 3 & 8 \\ 7 & 8 & 3 & 9 \\ 4 & 9 & 0 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ 7 \\ 22 \\ 19 \end{bmatrix}.$$

N73

$$A = \begin{bmatrix} -2 & -4 & -5 & -8 \\ 3 & -7 & 2 & 7 \\ 2 & -15 & 6 & 10 \\ -1 & -8 & 4 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ -9 \\ -19 \\ -7 \end{bmatrix}.$$

N74

$$A = \begin{bmatrix} -6 & 6 & 0 & 5 \\ 4 & 6 & 9 & -6 \\ 3 & 18 & 20 & -16 \\ -1 & 12 & 11 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ -9 \\ -25 \\ -11 \end{bmatrix}.$$

N75

$$A = \begin{bmatrix} 5 & 8 & -8 & 1 \\ -8 & -4 & 7 & -7 \\ -9 & 7 & -2 & -13 \\ -1 & 11 & -9 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ 1 \\ -10 \\ -5 \end{bmatrix}.$$

N76

$$A = \begin{bmatrix} -7 & 3 & 0 & 3 \\ -8 & -9 & 0 & 5 \\ -28 & -12 & 2 & 16 \\ -20 & -3 & 2 & 11 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ -3 \\ 12 \\ 16 \end{bmatrix}.$$

N77

$$A = \begin{bmatrix} 6 & -2 & 7 & -4 \\ -3 & 5 & 2 & 2 \\ 8 & 12 & 18 & -1 \\ 11 & 7 & 16 & -3 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ -8 \\ -25 \\ -14 \end{bmatrix}.$$

N78

$$A = \begin{bmatrix} 6 & 5 & -5 & 7 \\ -3 & -4 & -9 & -4 \\ -5 & 5 & -18 & 3 \\ -2 & 9 & -9 & 7 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 6 \\ -3 \\ -3 \end{bmatrix}.$$

N79

$$A = \begin{bmatrix} 7 & 6 & -2 & -6 \\ 9 & 7 & 5 & 9 \\ 19 & 20 & 13 & 6 \\ 10 & 13 & 8 & -3 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 5 \\ 14 \\ 12 \end{bmatrix}.$$

N80

$$A = \begin{bmatrix} -4 & 4 & -1 & 5 \\ -8 & 8 & 8 & 0 \\ -27 & 21 & 22 & -2 \\ -19 & 13 & 14 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -1 \\ 0 \\ 4 \end{bmatrix}.$$

N81

$$A = \begin{bmatrix} 1 & -3 & 4 & 5 \\ -8 & 2 & 2 & -7 \\ -10 & 7 & 1 & -6 \\ -2 & 5 & -1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ 6 \\ 17 \\ 12 \end{bmatrix}.$$

N82

$$A = \begin{bmatrix} 0 & 6 & 9 & -4 \\ 9 & 7 & -5 & 0 \\ 17 & 22 & -7 & -1 \\ 8 & 15 & -2 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -7 \\ -13 \\ -4 \end{bmatrix}.$$

N83

$$A = \begin{bmatrix} 9 & 0 & 6 & -1 \\ 9 & 7 & 5 & -7 \\ 34 & 15 & 20 & -6 \\ 25 & 8 & 15 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ 9 \\ 24 \\ 18 \end{bmatrix}.$$

N84

$$A = \begin{bmatrix} -4 & 6 & -1 & 4 \\ 7 & -5 & -9 & -4 \\ 7 & -1 & -20 & -8 \\ 0 & 4 & -11 & -4 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ 0 \\ 13 \\ 19 \end{bmatrix}.$$

N85

$$A = \begin{bmatrix} 2 & 0 & 0 & -6 \\ -2 & 3 & 4 & -3 \\ 2 & 5 & 17 & -16 \\ 4 & 2 & 13 & -13 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ 6 \\ 8 \\ 4 \end{bmatrix}.$$

N86

$$A = \begin{bmatrix} 7 & -7 & -5 & 8 \\ 9 & -5 & -9 & -2 \\ 29 & -12 & -32 & 8 \\ 20 & -7 & -23 & 10 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ -1 \\ -4 \\ 3 \end{bmatrix}.$$

N87

$$A = \begin{bmatrix} -2 & -9 & -4 & 7 \\ 2 & -4 & -1 & -4 \\ 7 & -19 & -3 & -10 \\ 5 & -15 & -2 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ -1 \\ -12 \\ -10 \end{bmatrix}.$$

N88

$$A = \begin{bmatrix} -4 & -3 & -4 & 1 \\ 3 & 8 & 0 & 6 \\ -6 & 4 & -5 & 9 \\ -9 & -4 & -5 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ 1 \\ 18 \\ 23 \end{bmatrix}.$$

N89

$$A = \begin{bmatrix} -7 & -4 & 1 & -9 \\ 8 & -1 & -1 & 8 \\ 4 & -14 & -8 & 3 \\ -4 & -13 & -7 & -5 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ 1 \\ 3 \\ 6 \end{bmatrix}.$$

N90

$$A = \begin{bmatrix} -6 & -6 & 6 & 5 \\ 1 & 3 & 7 & 3 \\ -6 & 0 & 14 & 8 \\ -7 & -3 & 7 & 5 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 4 \\ 14 \\ 15 \end{bmatrix}.$$

N91

$$A = \begin{bmatrix} -1 & -9 & 2 & -7 \\ 0 & 3 & 5 & -2 \\ -3 & 1 & 13 & -3 \\ -3 & -2 & 8 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 6 \\ 19 \\ 16 \end{bmatrix}.$$

N92

$$A = \begin{bmatrix} -4 & -2 & 6 & 4 \\ 8 & -4 & -8 & 1 \\ 15 & -12 & -2 & -3 \\ 7 & -8 & 6 & -4 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 0 \\ -2 \\ 1 \end{bmatrix}.$$

N93

$$A = \begin{bmatrix} -7 & -4 & -6 & -8 \\ -8 & 6 & 2 & -7 \\ -28 & 0 & 7 & -31 \\ -20 & -6 & 5 & -24 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 3 \\ -5 \\ -7 \end{bmatrix}.$$

N94

$$A = \begin{bmatrix} -8 & -6 & 9 & -7 \\ 0 & -3 & -8 & 4 \\ -3 & -16 & -11 & 1 \\ -3 & -13 & -3 & -3 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ -3 \\ -8 \\ 1 \end{bmatrix}.$$

N95

$$A = \begin{bmatrix} 2 & -3 & 1 & 4 \\ 2 & 0 & 9 & 7 \\ 8 & -8 & 20 & 15 \\ 6 & -8 & 11 & 8 \end{bmatrix}, \qquad b = \begin{bmatrix} -5 \\ 2 \\ -8 \\ -5 \end{bmatrix}.$$

N96

$$A = \begin{bmatrix} 5 & 4 & -7 & 8 \\ 7 & -9 & -4 & 9 \\ 16 & -14 & -15 & 23 \\ 9 & -5 & -11 & 14 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 8 \\ 28 \\ 26 \end{bmatrix}.$$

N97

$$A = \begin{bmatrix} 8 & -6 & -7 & -5 \\ 4 & 1 & -8 & 6 \\ 9 & -10 & -20 & 2 \\ 5 & -11 & -12 & -4 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ -4 \\ -16 \\ -7 \end{bmatrix}.$$

N98

$$A = \begin{bmatrix} -2 & 3 & 7 & 1 \\ -6 & 0 & 7 & 3 \\ -11 & 0 & 16 & 8 \\ -5 & 0 & 9 & 5 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ 1 \\ -8 \\ -3 \end{bmatrix}.$$

N99

$$A = \begin{bmatrix} 1 & 5 & -5 & -7 \\ -1 & 4 & 7 & 1 \\ -7 & 20 & 10 & -10 \\ -6 & 16 & 3 & -11 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ 6 \\ 16 \\ 12 \end{bmatrix}.$$

N100

$$A = \begin{bmatrix} -9 & -8 & 7 & 4 \\ 6 & -6 & 5 & 3 \\ 11 & -16 & 19 & 10 \\ 5 & -10 & 14 & 7 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 6 \\ 9 \\ 5 \end{bmatrix}.$$

N101

$$A = \begin{bmatrix} -3 & 2 & 3 & 3 \\ 7 & 7 & 1 & 8 \\ 17 & 7 & 5 & 27 \\ 10 & 0 & 4 & 19 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ -3 \\ 6 \\ 10 \end{bmatrix}.$$

N102

$$A = \begin{bmatrix} 4 & -2 & -6 & 6 \\ 5 & -2 & 6 & -1 \\ 19 & -2 & 5 & -2 \\ 14 & 0 & -1 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 5 \\ -1 \\ -2 \end{bmatrix}.$$

N103

$$A = \begin{bmatrix} -7 & -8 & 5 & -9 \\ -2 & 1 & 1 & 1 \\ -8 & -2 & 16 & -1 \\ -6 & -3 & 15 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} -4 \\ 1 \\ -8 \\ -8 \end{bmatrix}.$$

N104

$$A = \begin{bmatrix} 2 & -4 & -4 & 3 \\ -7 & -2 & -5 & -7 \\ -21 & 1 & -11 & -17 \\ -14 & 3 & -6 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 4 \\ 14 \\ 14 \end{bmatrix}.$$

N105

$$A = \begin{bmatrix} 9 & 3 & -7 & 9 \\ 3 & 6 & 8 & 3 \\ 11 & 12 & 3 & 22 \\ 8 & 6 & -5 & 19 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 2 \\ 5 \\ 5 \end{bmatrix}.$$

N106

$$A = \begin{bmatrix} 8 & -6 & 8 & 7 \\ -6 & -4 & 6 & -3 \\ -10 & -15 & 20 & 9 \\ -4 & -11 & 14 & 12 \end{bmatrix}, \qquad b = \begin{bmatrix} 6 \\ 5 \\ 8 \\ 8 \end{bmatrix}.$$

N107

$$A = \begin{bmatrix} -1 & -4 & -2 & -1 \\ 8 & 6 & 2 & -6 \\ 21 & 11 & -7 & -5 \\ 13 & 5 & -9 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ -7 \\ -7 \\ 6 \end{bmatrix}.$$

N108

$$A = \begin{bmatrix} 3 & -6 & 8 & 4 \\ -3 & -8 & -5 & 0 \\ 4 & -29 & 4 & 7 \\ 7 & -21 & 9 & 7 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 1 \\ 3 \\ 6 \end{bmatrix}.$$

N109

$$A = \begin{bmatrix} -3 & 8 & -5 & 0 \\ 5 & -9 & -4 & 4 \\ 4 & -17 & -6 & 11 \\ -1 & -8 & -2 & 7 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ 4 \\ 6 \\ 3 \end{bmatrix}.$$

N110

$$A = \begin{bmatrix} 8 & 9 & 6 & 9 \\ -9 & 6 & -5 & -7 \\ -6 & 28 & -8 & -4 \\ 3 & 22 & -3 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -8 \\ -13 \\ -1 \end{bmatrix}.$$

N111

$$A = \begin{bmatrix} -9 & 7 & -9 & -6 \\ -4 & 4 & 2 & 6 \\ -8 & 18 & -11 & 5 \\ -4 & 14 & -13 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 8 \\ -2 \\ 3 \\ 10 \end{bmatrix}.$$

N112

$$A = \begin{bmatrix} 8 & 2 & -8 & 4 \\ -4 & 2 & -1 & -3 \\ -2 & 6 & -11 & -7 \\ 2 & 4 & -10 & -4 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ -2 \\ -6 \\ 1 \end{bmatrix}.$$

N113

$$A = \begin{bmatrix} 7 & -6 & 5 & -3 \\ 8 & -1 & 3 & -6 \\ 21 & -11 & 13 & -14 \\ 13 & -10 & 10 & -8 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ 3 \\ 18 \\ 20 \end{bmatrix}.$$

N114

$$A = \begin{bmatrix} -4 & 1 & 6 & 4 \\ 2 & 8 & 4 & -1 \\ -1 & 20 & 19 & -7 \\ -3 & 12 & 15 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ -1 \\ 1 \\ 8 \end{bmatrix}.$$

N115

$$A = \begin{bmatrix} -8 & -5 & 6 & 1 \\ 1 & 8 & -9 & -1 \\ 0 & 10 & -12 & -2 \\ -1 & 2 & -3 & -1 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ 3 \\ 11 \\ 12 \end{bmatrix}.$$

N116

$$A = \begin{bmatrix} 2 & 7 & 8 & -7 \\ -1 & 5 & 5 & 0 \\ 6 & 8 & 24 & -10 \\ 7 & 3 & 19 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ -3 \\ 1 \\ 7 \end{bmatrix}.$$

N117

$$A = \begin{bmatrix} 1 & 8 & -7 & 1 \\ 5 & -2 & -9 & -3 \\ 17 & -4 & -26 & 4 \\ 12 & -2 & -17 & 7 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ 6 \\ 7 \\ 3 \end{bmatrix}.$$

N118

$$A = \begin{bmatrix} -4 & 0 & 5 & 7 \\ -1 & -1 & 6 & 0 \\ -8 & -8 & 15 & 8 \\ -7 & -7 & 9 & 8 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ 3 \\ 2 \\ 2 \end{bmatrix}.$$

N119

$$A = \begin{bmatrix} -7 & 3 & 9 & -9 \\ -3 & -7 & 8 & -8 \\ -22 & -10 & 34 & -17 \\ -19 & -3 & 26 & -9 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ -3 \\ -10 \\ -4 \end{bmatrix}.$$

N120

$$A = \begin{bmatrix} -8 & 3 & 1 & -1 \\ -1 & -3 & 3 & 3 \\ -14 & -7 & 16 & 6 \\ -13 & -4 & 13 & 3 \end{bmatrix}, \qquad b = \begin{bmatrix} 5 \\ -6 \\ -8 \\ 1 \end{bmatrix}.$$

N121

$$A = \begin{bmatrix} 3 & 3 & 5 & 5 \\ -1 & -9 & 0 & 9 \\ -4 & -15 & -4 & 24 \\ -3 & -6 & -4 & 15 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ 8 \\ 0 \\ -5 \end{bmatrix}.$$

N122

$$A = \begin{bmatrix} -8 & -3 & -9 & 0 \\ 4 & -9 & 8 & -3 \\ -5 & -23 & 13 & -13 \\ -9 & -14 & 5 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ -9 \\ -25 \\ -11 \end{bmatrix}.$$

N123

$$A = \begin{bmatrix} 5 & -1 & 8 & -3 \\ -8 & -5 & -2 & 8 \\ -9 & -7 & 6 & 21 \\ -1 & -2 & 8 & 13 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ 6 \\ 17 \\ 15 \end{bmatrix}.$$

N124

$$A = \begin{bmatrix} 9 & -8 & -8 & 2 \\ 9 & 3 & -6 & -1 \\ 19 & -2 & -26 & 8 \\ 10 & -5 & -20 & 9 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ -5 \\ 3 \\ 12 \end{bmatrix}.$$

N125

$$A = \begin{bmatrix} 7 & -8 & 3 & -6 \\ -9 & -3 & 4 & -8 \\ -8 & -6 & 9 & -14 \\ 1 & -3 & 5 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ -9 \\ -25 \\ -14 \end{bmatrix}.$$

N126

$$A = \begin{bmatrix} -6 & -4 & -8 & 7 \\ 1 & -6 & -2 & 6 \\ -6 & -18 & -3 & 16 \\ -7 & -12 & -1 & 10 \end{bmatrix}, \qquad b = \begin{bmatrix} -8 \\ -9 \\ -33 \\ -21 \end{bmatrix}.$$

N127

$$A = \begin{bmatrix} -4 & -4 & -4 & -7 \\ 5 & -7 & -8 & -2 \\ -1 & -24 & -27 & -17 \\ -6 & -17 & -19 & -15 \end{bmatrix}, \qquad b = \begin{bmatrix} 7 \\ 0 \\ 1 \\ 3 \end{bmatrix}.$$

N128

$$A = \begin{bmatrix} 5 & -6 & 1 & 6 \\ -1 & 6 & 5 & -7 \\ 6 & 9 & 2 & -17 \\ 7 & 3 & -3 & -10 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ 0 \\ -3 \\ 0 \end{bmatrix}.$$

N129

$$A = \begin{bmatrix} 8 & 2 & 6 & 8 \\ 2 & -9 & -8 & 3 \\ 15 & -13 & -13 & 22 \\ 13 & -4 & -5 & 19 \end{bmatrix}, \qquad b = \begin{bmatrix} -2 \\ -7 \\ -8 \\ 5 \end{bmatrix}.$$

N130

$$A = \begin{bmatrix} 6 & 1 & -9 & -6 \\ -5 & 0 & 2 & -5 \\ -13 & -6 & -4 & -25 \\ -8 & -6 & -6 & -20 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ 8 \\ 20 \\ 13 \end{bmatrix}.$$

N131

$$A = \begin{bmatrix} -3 & -5 & -2 & 2 \\ -7 & 2 & 9 & 7 \\ -22 & -2 & 22 & 13 \\ -15 & -4 & 13 & 6 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ -8 \\ -18 \\ -4 \end{bmatrix}.$$

N132

$$A = \begin{bmatrix} -7 & 0 & -6 & 9 \\ -4 & 0 & 0 & 9 \\ -22 & 8 & -12 & 35 \\ -18 & 8 & -12 & 26 \end{bmatrix}, \qquad b = \begin{bmatrix} 2 \\ -9 \\ -10 \\ 3 \end{bmatrix}.$$

N133

$$A = \begin{bmatrix} 0 & 6 & -7 & 6 \\ -9 & -3 & 2 & -3 \\ -10 & -2 & 1 & -8 \\ -1 & 1 & -1 & -5 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ -1 \\ 8 \\ 12 \end{bmatrix}.$$

N134

$$A = \begin{bmatrix} 4 & 6 & -3 & -4 \\ 8 & -8 & 4 & 4 \\ 29 & -1 & 14 & 12 \\ 21 & 7 & 10 & 8 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ -3 \\ -8 \\ 0 \end{bmatrix}.$$

N135

$$A = \begin{bmatrix} -4 & 4 & 9 & -3 \\ -7 & 1 & -3 & -3 \\ -14 & 4 & -2 & -2 \\ -7 & 3 & 1 & 1 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ -5 \\ -12 \\ -5 \end{bmatrix}.$$

N136

$$A = \begin{bmatrix} 2 & 7 & -9 & 8 \\ 4 & -8 & 2 & 3 \\ 12 & -10 & 1 & 19 \\ 8 & -2 & -1 & 16 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ -2 \\ 2 \\ 8 \end{bmatrix}.$$

N137

$$A = \begin{bmatrix} -2 & 0 & -2 & 6 \\ -2 & 4 & 5 & -7 \\ -2 & 13 & 15 & -12 \\ 0 & 9 & 10 & -5 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ -5 \\ -27 \\ -21 \end{bmatrix}.$$

N138

$$A = \begin{bmatrix} -1 & -7 & 3 & 0 \\ 3 & -6 & 4 & 1 \\ 10 & -15 & 12 & 10 \\ 7 & -9 & 8 & 9 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ 3 \\ 2 \\ 3 \end{bmatrix}.$$

N139

$$A = \begin{bmatrix} 3 & -3 & 8 & -4 \\ -4 & -1 & -6 & -8 \\ -3 & -13 & -2 & -20 \\ 1 & -12 & 4 & -12 \end{bmatrix}, \qquad b = \begin{bmatrix} -1 \\ 3 \\ -3 \\ -3 \end{bmatrix}.$$

N140

$$A = \begin{bmatrix} 5 & -7 & -8 & -7 \\ 7 & -8 & -5 & -3 \\ 12 & -17 & -21 & -15 \\ 5 & -9 & -16 & -12 \end{bmatrix}, \qquad b = \begin{bmatrix} 9 \\ 8 \\ 21 \\ 16 \end{bmatrix}.$$

N141

$$A = \begin{bmatrix} 1 & -3 & -9 & 1 \\ -7 & -8 & 5 & 9 \\ -6 & -22 & 10 & 24 \\ 1 & -14 & 5 & 15 \end{bmatrix}, \qquad b = \begin{bmatrix} -7 \\ -3 \\ -14 \\ -7 \end{bmatrix}.$$

N142

$$A = \begin{bmatrix} -7 & -3 & 6 & -6 \\ -8 & -1 & -9 & -2 \\ -32 & 0 & -17 & -11 \\ -24 & 1 & -8 & -9 \end{bmatrix}, \qquad b = \begin{bmatrix} 0 \\ -1 \\ 1 \\ 8 \end{bmatrix}.$$

N143

$$A = \begin{bmatrix} -6 & -4 & 0 & 5 \\ 0 & 1 & 5 & -7 \\ -8 & -6 & 17 & -12 \\ -8 & -7 & 12 & -5 \end{bmatrix}, \qquad b = \begin{bmatrix} -9 \\ 7 \\ 13 \\ 7 \end{bmatrix}.$$

N144

$$A = \begin{bmatrix} 9 & 0 & -1 & 5 \\ 0 & -4 & -2 & -2 \\ 4 & -6 & -7 & 5 \\ 4 & -2 & -5 & 7 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ -2 \\ -19 \\ -12 \end{bmatrix}.$$

N145

$$A = \begin{bmatrix} -3 & -8 & -1 & 0 \\ -5 & 5 & 4 & 1 \\ -17 & -1 & -2 & -5 \\ -12 & -6 & -6 & -6 \end{bmatrix}, \qquad b = \begin{bmatrix} -6 \\ 8 \\ 7 \\ 1 \end{bmatrix}.$$

N146

$$A = \begin{bmatrix} -8 & -9 & 3 & -5 \\ -7 & 2 & -6 & -1 \\ -18 & 4 & -10 & -1 \\ -11 & 2 & -4 & 0 \end{bmatrix}, \qquad b = \begin{bmatrix} 4 \\ 6 \\ 21 \\ 17 \end{bmatrix}.$$

N147

$$A = \begin{bmatrix} 1 & 1 & 8 & -3 \\ 2 & 0 & -2 & 2 \\ -1 & 4 & 13 & 0 \\ -3 & 4 & 15 & -2 \end{bmatrix}, \qquad b = \begin{bmatrix} -3 \\ 8 \\ 9 \\ 7 \end{bmatrix}.$$

N148

$$A = \begin{bmatrix} -4 & 1 & -1 & 3 \\ -7 & -7 & -6 & 8 \\ -26 & -9 & -20 & 13 \\ -19 & -2 & -14 & 5 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ -9 \\ -13 \\ 0 \end{bmatrix}.$$

N149

$$A = \begin{bmatrix} 7 & 1 & -3 & -8 \\ 4 & 7 & -5 & 1 \\ 10 & 20 & -4 & -12 \\ 6 & 13 & 1 & -13 \end{bmatrix}, \qquad b = \begin{bmatrix} 1 \\ -4 \\ 2 \\ 8 \end{bmatrix}.$$

N150

$$A = \begin{bmatrix} 4 & 4 & -1 & -3 \\ 0 & 8 & -1 & 7 \\ 1 & 19 & 3 & 11 \\ 1 & 11 & 4 & 4 \end{bmatrix}, \qquad b = \begin{bmatrix} 3 \\ 0 \\ 4 \\ 7 \end{bmatrix}.$$