

X Math@MUT XXXM5/1-6300111-00001XX

Matrices02 Answers for No.9012

ExerciseMatrices02 Answers for No.9012

01 : det(A) = -13	02 : det(B) = 15
03 : det(C) = 51	04 : det(D) = 8
05 : det(E) = -12	06 : det(F) = 84
07 : m*det(C)-det(pE) = 921	08 : det(m*D)-p*det(F) = -264
09 : x = -4	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{2} & \frac{1}{2} \\ \frac{-1}{2} & \frac{3}{10} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 22	x = 8	y = 7	
13 : det(A) = 15	x = -2	y = 6	
14 : det(A) = 18	x = -2	y = 8	z = -4
15 : det(A) = 2	x = -7	y = -2	z = -3

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Matrices02 Answers for No.9016

ExerciseMatrices02 Answers for No.9016

01 : det(A) = 12	02 : det(B) = -22
03 : det(C) = -17	04 : det(D) = -105
05 : det(E) = -12	06 : det(F) = -2
07 : m*det(C)-det(pE) = 734	08 : det(m*D)-p*det(F) = -412
09 : x = -2	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-3}{29} & \frac{5}{29} \\ \frac{4}{29} & \frac{3}{29} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 12	x = 6	y = 3	
13 : det(A) = -14	x = -3	y = 4	
14 : det(A) = -3	x = 5	y = -4	z = -3
15 : det(A) = 1	x = 4	y = 2	z = 8

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Matrices02 Answers for No.9018

ExerciseMatrices02 Answers for No.9018

01 : det(A) = 21	02 : det(B) = -12
03 : det(C) = -19	04 : det(D) = -76
05 : det(E) = 0	06 : det(F) = -58
07 : m*det(C)-det(pE) = -76	08 : det(m*D)-p*det(F) = -1158
09 : x = -4	10 : y = 4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{5} & \frac{-1}{2} \\ \frac{2}{5} & \frac{-1}{2} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -3	x = 3	y = 6	
13 : det(A) = 2	x = -2	y = -8	
14 : det(A) = -9	x = 4	y = 8	z = -6
15 : det(A) = 3	x = 2	y = 5	z = 4

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Matrices02 Answers for No.9036

ExerciseMatrices02 Answers for No.9036

01 : det(A) = 19	02 : det(B) = -17
03 : det(C) = -28	04 : det(D) = 68
05 : det(E) = 6	06 : det(F) = 48
07 : m*det(C)-det(pE) = -90	08 : det(m*D)-p*det(F) = 564
09 : x = 3	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-2}{19} & \frac{-3}{19} \\ \frac{3}{19} & \frac{-5}{19} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 13	x = 2	y = -3	
13 : det(A) = 20	x = 8	y = -4	
14 : det(A) = -14	x = 2	y = 7	z = -5
15 : det(A) = 5	x = -7	y = -3	z = -5

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Matrices02 Answers for No.9037

ExerciseMatrices02 Answers for No.9037

01 : det(A) = -21	02 : det(B) = -15
03 : det(C) = -91	04 : det(D) = 64
05 : det(E) = -28	06 : det(F) = 108
07 : m*det(C)-det(pE) = -336	08 : det(m*D)-p*det(F) = 916
09 : x = -3	10 : y = 4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{2}{19} & \frac{-5}{19} \\ \frac{-3}{19} & \frac{-2}{19} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -25	x = -4	y = -6	
13 : det(A) = -12	x = -8	y = 7	
14 : det(A) = 10	x = 5	y = -7	z = 3
15 : det(A) = -1	x = 8	y = -7	z = 2

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Matrices02 Answers for No.9138

ExerciseMatrices02 Answers for No.9138

01 : det(A) = 15	02 : det(B) = -9
03 : det(C) = -44	04 : det(D) = 56
05 : det(E) = 36	06 : det(F) = 25
07 : m*det(C)-det(pE) = -212	08 : det(m*D)-p*det(F) = 871
09 : x = 3	10 : y = -3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{3}{14} & \frac{-5}{14} \\ \frac{-2}{7} & \frac{1}{7} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 7	x = 4	y = 5	
13 : det(A) = 21	x = 2	y = 8	
14 : det(A) = -6	x = -5	y = 2	z = -7
15 : det(A) = -27	x = -2	y = 7	z = 4

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Matrices02 Answers for No.9602

ExerciseMatrices02 Answers for No.9602

01 : det(A) = -12	02 : det(B) = -15
03 : det(C) = -4	04 : det(D) = -63
05 : det(E) = -72	06 : det(F) = -152
07 : m*det(C)-det(pE) = 1940	08 : det(m*D)-p*det(F) = 393
09 : x = -3	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-5}{2} & \frac{3}{2} \\ -2 & 1 \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -2	x = 5	y = -4	
13 : det(A) = -5	x = -7	y = -3	
14 : det(A) = -6	x = 4	y = 2	z = -8
15 : det(A) = 1	x = -4	y = 5	z = 3

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Matrices02 Answers for No.9616

ExerciseMatrices02 Answers for No.9616

01 : det(A) = 9	02 : det(B) = 14
03 : det(C) = -70	04 : det(D) = -84
05 : det(E) = 16	06 : det(F) = -112
07 : m*det(C)-det(pE) = -198	08 : det(m*D)-p*det(F) = 140
09 : x = 2	10 : y = -4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{2}{25} & \frac{3}{25} \\ \frac{-1}{5} & \frac{1}{5} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 2	x = 3	y = 2	
13 : det(A) = 12	x = 4	y = 3	
14 : det(A) = -8	x = -4	y = 2	z = -5
15 : det(A) = -3	x = -3	y = 7	z = -8

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Matrices02 Answers for No.10152

ExerciseMatrices02 Answers for No.10152

01 : det(A) = -18	02 : det(B) = -19
03 : det(C) = -75	04 : det(D) = 24
05 : det(E) = -10	06 : det(F) = 4
07 : m*det(C)-det(pE) = 565	08 : det(m*D)-p*det(F) = 8
09 : x = 2	10 : y = -3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} -2 & \frac{-3}{2} \\ 1 & 1 \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 12	x = -8	y = 4	
13 : det(A) = 10	x = -7	y = -5	
14 : det(A) = -18	x = -7	y = 8	z = 6
15 : det(A) = 8	x = -2	y = -3	z = -8

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Matrices02 Answers for No.11738

ExerciseMatrices02 Answers for No.11738

01 : det(A) = -20	02 : det(B) = -23
03 : det(C) = 31	04 : det(D) = -49
05 : det(E) = -84	06 : det(F) = 102
07 : m*det(C)-det(pE) = 2330	08 : det(m*D)-p*det(F) = -502
09 : x = -3	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{7} & \frac{-1}{7} \\ \frac{1}{7} & \frac{-2}{35} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 3	x = -5	y = -6	
13 : det(A) = -15	x = -7	y = 3	
14 : det(A) = 6	x = -2	y = -7	z = 4
15 : det(A) = -21	x = 2	y = -3	z = -8

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Matrices02 Answers for No.11754

ExerciseMatrices02 Answers for No.11754

01 : det(A) = 11	02 : det(B) = 7
03 : det(C) = 21	04 : det(D) = 88
05 : det(E) = 36	06 : det(F) = 19
07 : m*det(C)-det(pE) = -2283	08 : det(m*D)-p*det(F) = 12
09 : x = -2	10 : y = -4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-2}{9} & \frac{1}{6} \\ \frac{-1}{9} & \frac{-1}{6} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -1	x = -3	y = -7	
13 : det(A) = 2	x = 2	y = 6	
14 : det(A) = -30	x = 5	y = 2	z = 4
15 : det(A) = -11	x = -8	y = -3	z = -2

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Matrices02 Answers for No.11841

ExerciseMatrices02 Answers for No.11841

01 : det(A) = -11	02 : det(B) = -7
03 : det(C) = 38	04 : det(D) = 30
05 : det(E) = -42	06 : det(F) = 108
07 : m*det(C)-det(pE) = 2802	08 : det(m*D)-p*det(F) = -162
09 : x = -4	10 : y = -3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{7} & \frac{-2}{7} \\ \frac{1}{7} & \frac{3}{14} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 7	x = -5	y = 3	
13 : det(A) = -32	x = -2	y = -6	
14 : det(A) = 3	x = -6	y = -7	z = -8
15 : det(A) = -1	x = -4	y = 6	z = 3

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Matrices02 Answers for No.11842

ExerciseMatrices02 Answers for No.11842

01 : det(A) = -12	02 : det(B) = -8
03 : det(C) = 24	04 : det(D) = 99
05 : det(E) = 98	06 : det(F) = 16
07 : m*det(C)-det(pE) = -26	08 : det(m*D)-p*det(F) = 875
09 : x = -2	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-4}{17} & \frac{-5}{17} \\ \frac{5}{17} & \frac{2}{17} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -14	x = 3	y = 2	
13 : det(A) = 14	x = -3	y = -5	
14 : det(A) = 10	x = 7	y = -2	z = 6
15 : det(A) = -5	x = 7	y = -3	z = 4

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Matrices02 Answers for No.11901

ExerciseMatrices02 Answers for No.11901

01 : det(A) = 8	02 : det(B) = -14
03 : det(C) = -46	04 : det(D) = 12
05 : det(E) = 36	06 : det(F) = -12
07 : m*det(C)-det(pE) = -426	08 : det(m*D)-p*det(F) = 132
09 : x = 4	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{6} & \frac{2}{9} \\ \frac{-1}{6} & \frac{-1}{9} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -7	x = 3	y = -6	
13 : det(A) = 13	x = 7	y = -4	
14 : det(A) = 3	x = -7	y = 4	z = 8
15 : det(A) = -4	x = 5	y = 7	z = -6

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Matrices02 Answers for No.11947

ExerciseMatrices02 Answers for No.11947

01 : det(A) = -19	02 : det(B) = 18
03 : det(C) = 25	04 : det(D) = 53
05 : det(E) = -6	06 : det(F) = -18
07 : m*det(C)-det(pE) = 434	08 : det(m*D)-p*det(F) = 284
09 : x = -4	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-3}{35} & \frac{1}{7} \\ \frac{4}{35} & \frac{1}{7} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 28	x = -2	y = -5	
13 : det(A) = 12	x = -3	y = -7	
14 : det(A) = 15	x = 7	y = 2	z = -3
15 : det(A) = -24	x = -2	y = 7	z = 5

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Matrices02 Answers for No.11989

ExerciseMatrices02 Answers for No.11989

01 : det(A) = -11	02 : det(B) = -17
03 : det(C) = 33	04 : det(D) = 6
05 : det(E) = -44	06 : det(F) = -111
07 : m*det(C)-det(pE) = 385	08 : det(m*D)-p*det(F) = 228
09 : x = -3	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{3}{10} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 5	x = -6	y = -3	
13 : det(A) = -6	x = 3	y = 4	
14 : det(A) = -6	x = -7	y = 2	z = 3
15 : det(A) = -8	x = 7	y = -6	z = -8

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Matrices02 Answers for No.11996

ExerciseMatrices02 Answers for No.11996

01 : det(A) = 23	02 : det(B) = 9
03 : det(C) = 8	04 : det(D) = 25
05 : det(E) = -8	06 : det(F) = -7
07 : m*det(C)-det(pE) = 32	08 : det(m*D)-p*det(F) = 232
09 : x = -3	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{5}{2} & -2 \\ \frac{3}{2} & -1 \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 9	x = 6	y = 5	
13 : det(A) = -11	x = 7	y = -3	
14 : det(A) = -10	x = 7	y = 3	z = 2
15 : det(A) = 9	x = -6	y = -4	z = 8

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Matrices02 Answers for No.12889

ExerciseMatrices02 Answers for No.12889

01 : det(A) = -19	02 : det(B) = 22
03 : det(C) = -27	04 : det(D) = 6
05 : det(E) = -36	06 : det(F) = 68
07 : m*det(C)-det(pE) = 945	08 : det(m*D)-p*det(F) = -198
09 : x = -3	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{5}{33} & \frac{-2}{33} \\ \frac{4}{33} & \frac{5}{33} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -18	x = 7	y = -8	
13 : det(A) = -6	x = 8	y = 4	
14 : det(A) = 2	x = -5	y = -4	z = -2
15 : det(A) = -16	x = 2	y = -3	z = 5

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Matrices02 Answers for No.12890

ExerciseMatrices02 Answers for No.12890

01 : det(A) = -10	02 : det(B) = -16
03 : det(C) = 26	04 : det(D) = 26
05 : det(E) = -66	06 : det(F) = -30
07 : m*det(C)-det(pE) = 118	08 : det(m*D)-p*det(F) = 134
09 : x = -2	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{5}{37} & \frac{-4}{37} \\ \frac{-3}{37} & \frac{-5}{37} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -14	x = 2	y = 7	
13 : det(A) = 6	x = -7	y = -2	
14 : det(A) = 18	x = 6	y = -7	z = 8
15 : det(A) = -10	x = -4	y = 2	z = -5

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Matrices02 Answers for No.12891

ExerciseMatrices02 Answers for No.12891

01 : det(A) = -11	02 : det(B) = 19
03 : det(C) = -66	04 : det(D) = -63
05 : det(E) = 12	06 : det(F) = -50
07 : m*det(C)-det(pE) = -360	08 : det(m*D)-p*det(F) = -908
09 : x = -2	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-5}{26} & \frac{1}{13} \\ \frac{-3}{26} & \frac{-2}{13} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -37	x = 7	y = -5	
13 : det(A) = 6	x = 4	y = 2	
14 : det(A) = -5	x = 3	y = 5	z = 4
15 : det(A) = -7	x = 7	y = -6	z = -8

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Matrices02 Answers for No.12917

ExerciseMatrices02 Answers for No.12917

01 : det(A) = 8	02 : det(B) = 14
03 : det(C) = 55	04 : det(D) = 113
05 : det(E) = -32	06 : det(F) = 54
07 : m*det(C)-det(pE) = 476	08 : det(m*D)-p*det(F) = 1700
09 : x = 4	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{2}{21} & \frac{1}{7} \\ \frac{5}{21} & \frac{-1}{7} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 9	x = -2	y = 5	
13 : det(A) = -40	x = 3	y = -2	
14 : det(A) = -5	x = 2	y = -3	z = 5
15 : det(A) = 8	x = -5	y = -7	z = -2

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X Math@MUT XXXM5/1-6300111-00022XX

Matrices02 Answers for No.13099

ExerciseMatrices02 Answers for No.13099

01 : det(A) = -7	02 : det(B) = -11
03 : det(C) = 73	04 : det(D) = 23
05 : det(E) = -16	06 : det(F) = 48
07 : m*det(C)-det(pE) = 308	08 : det(m*D)-p*det(F) = 320
09 : x = -3	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{3} & \frac{-1}{3} \\ \frac{-2}{15} & \frac{-1}{3} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 6	x = 3	y = 6	
13 : det(A) = 2	x = 2	y = 4	
14 : det(A) = 4	x = 8	y = -2	z = 3
15 : det(A) = 5	x = 3	y = -8	z = 4

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Matrices02 Answers for No.13100

ExerciseMatrices02 Answers for No.13100

01 : det(A) = 10	02 : det(B) = 16
03 : det(C) = 84	04 : det(D) = -3
05 : det(E) = 42	06 : det(F) = 15
07 : m*det(C)-det(pE) = 126	08 : det(m*D)-p*det(F) = -27
09 : x = -4	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{5} & \frac{1}{2} \\ \frac{-2}{5} & \frac{1}{2} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -16	x = -2	y = -8	
13 : det(A) = 40	x = 5	y = -2	
14 : det(A) = 5	x = -7	y = -2	z = 3
15 : det(A) = 24	x = -5	y = -4	z = -2

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Matrices02 Answers for No.13139

ExerciseMatrices02 Answers for No.13139

01 : det(A) = 17	02 : det(B) = -14
03 : det(C) = -57	04 : det(D) = -127
05 : det(E) = 44	06 : det(F) = 116
07 : m*det(C)-det(pE) = -580	08 : det(m*D)-p*det(F) = -2264
09 : x = -4	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{10} & \frac{1}{10} \\ \frac{1}{8} & \frac{1}{8} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -7	x = -8	y = 4	
13 : det(A) = 6	x = -4	y = 8	
14 : det(A) = -2	x = 5	y = 6	z = 8
15 : det(A) = -7	x = 3	y = -2	z = 7

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Matrices02 Answers for No.13411

ExerciseMatrices02 Answers for No.13411

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|-----------------------------|------------------------------|
| 01 : det(A) = 20 | 02 : det(B) = -22 |
| 03 : det(C) = 39 | 04 : det(D) = 55 |
| 05 : det(E) = 8 | 06 : det(F) = -48 |
| 07 : m*det(C)-det(pE) = 148 | 08 : det(m*D)-p*det(F) = 928 |
| 09 : x = 4 | 10 : y = -3 |

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{2} & \frac{-5}{6} \\ \frac{-1}{2} & \frac{1}{2} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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|-------------------|--------|--------|-------|
| 12 : det(A) = 1 | x = -3 | y = 8 | |
| 13 : det(A) = -10 | x = 4 | y = -7 | |
| 14 : det(A) = 6 | x = 7 | y = -2 | z = 6 |
| 15 : det(A) = -12 | x = 5 | y = 3 | z = 2 |

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