

X Math@MUT XXXM5/1-6800311-00001XX

Matrices02 Answers for No.10052

ExerciseMatrices02 Answers for No.10052

01 : det(A) = 23	02 : det(B) = -14
03 : det(C) = -27	04 : det(D) = -17
05 : det(E) = 72	06 : det(F) = 84
07 : m*det(C)-det(pE) = -603	08 : det(m*D)-p*det(F) = -185
09 : x = -4	10 : y = 3

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

12 : det(A) = 17	x = -7	y = 6	
13 : det(A) = 12	x = -3	y = 2	
14 : det(A) = -1	x = 6	y = 7	z = -2
15 : det(A) = -12	x = -6	y = -3	z = 7

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Matrices02 Answers for No.10064

ExerciseMatrices02 Answers for No.10064

01 : det(A) = 9	02 : det(B) = -8
03 : det(C) = 5	04 : det(D) = 51
05 : det(E) = 20	06 : det(F) = 24
07 : m*det(C)-det(pE) = -1275	08 : det(m*D)-p*det(F) = -45
09 : x = 2	10 : y = 3

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

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

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Matrices02 Answers for No.10076

ExerciseMatrices02 Answers for No.10076

01 : det(A) = 13	02 : det(B) = 8
03 : det(C) = -42	04 : det(D) = -76
05 : det(E) = 64	06 : det(F) = 32
07 : m*det(C)-det(pE) = -1896	08 : det(m*D)-p*det(F) = -1312
09 : x = -2	10 : y = 4

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

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

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Matrices02 Answers for No.10077

ExerciseMatrices02 Answers for No.10077

01 : det(A) = -9	02 : det(B) = 21
03 : det(C) = 36	04 : det(D) = 50
05 : det(E) = 0	06 : det(F) = 24
07 : m*det(C)-det(pE) = 108	08 : det(m*D)-p*det(F) = 354
09 : x = 3	10 : y = -4

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

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

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Matrices02 Answers for No.10083

ExerciseMatrices02 Answers for No.10083

01 : det(A) = 14	02 : det(B) = 22
03 : det(C) = 0	04 : det(D) = 68
05 : det(E) = -40	06 : det(F) = -30
07 : m*det(C)-det(pE) = 2560	08 : det(m*D)-p*det(F) = 392
09 : x = 3	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} 1 & -\frac{5}{4} \\ -1 & 1 \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 10	x = -8	y = 6	
13 : det(A) = -16	x = 8	y = -2	
14 : det(A) = 24	x = 3	y = -4	z = 8
15 : det(A) = -21	x = 2	y = 6	z = 4

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Matrices02 Answers for No.10109

ExerciseMatrices02 Answers for No.10109

01 : det(A) = 11	02 : det(B) = 21
03 : det(C) = 9	04 : det(D) = 210
05 : det(E) = -56	06 : det(F) = -30
07 : m*det(C)-det(pE) = 484	08 : det(m*D)-p*det(F) = 3420
09 : x = 4	10 : y = -3

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

12 : det(A) = 4	x = -2	y = -6	
13 : det(A) = -21	x = -2	y = -8	
14 : det(A) = 12	x = -3	y = -2	z = -8
15 : det(A) = 18	x = -2	y = 4	z = -5

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Matrices02 Answers for No.10180

ExerciseMatrices02 Answers for No.10180

01 : det(A) = 18	02 : det(B) = 12
03 : det(C) = -1	04 : det(D) = 95
05 : det(E) = 0	06 : det(F) = 42
07 : m*det(C)-det(pE) = -1	08 : det(m*D)-p*det(F) = -31
09 : x = -2	10 : y = -4

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

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

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Matrices02 Answers for No.10181

ExerciseMatrices02 Answers for No.10181

01 : det(A) = 17	02 : det(B) = 14
03 : det(C) = 8	04 : det(D) = -3
05 : det(E) = -48	06 : det(F) = 60
07 : m*det(C)-det(pE) = 64	08 : det(m*D)-p*det(F) = -72
09 : x = -2	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{5}{23} & \frac{-4}{23} \\ \frac{2}{23} & \frac{3}{23} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 9	x = -6	y = 5	
13 : det(A) = 19	x = -4	y = -2	
14 : det(A) = -21	x = -3	y = 8	z = -2
15 : det(A) = 5	x = 4	y = 8	z = 6

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Matrices02 Answers for No.10191

ExerciseMatrices02 Answers for No.10191

01 : det(A) = 18	02 : det(B) = 23
03 : det(C) = 18	04 : det(D) = 42
05 : det(E) = -64	06 : det(F) = -60
07 : m*det(C)-det(pE) = 118	08 : det(m*D)-p*det(F) = 438
09 : x = -3	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{8} & \frac{3}{40} \\ \frac{-1}{8} & \frac{-1}{8} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 5	x = 3	y = 8	
13 : det(A) = 36	x = 7	y = -4	
14 : det(A) = -12	x = 2	y = -3	z = -4
15 : det(A) = 9	x = -4	y = -3	z = 5

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Matrices02 Answers for No.10281

ExerciseMatrices02 Answers for No.10281

01 : det(A) = 16	02 : det(B) = 14
03 : det(C) = -24	04 : det(D) = -51
05 : det(E) = -4	06 : det(F) = 32
07 : m*det(C)-det(pE) = -44	08 : det(m*D)-p*det(F) = -236
09 : x = -2	10 : y = -3

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

12 : det(A) = 5	x = -5	y = -4	
13 : det(A) = -1	x = 4	y = -5	
14 : det(A) = -33	x = 7	y = 5	z = -3
15 : det(A) = -27	x = -8	y = 2	z = -4

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Matrices02 Answers for No.10437

ExerciseMatrices02 Answers for No.10437

01 : det(A) = 11	02 : det(B) = 11
03 : det(C) = -54	04 : det(D) = 10
05 : det(E) = 0	06 : det(F) = 12
07 : m*det(C)-det(pE) = -108	08 : det(m*D)-p*det(F) = -8
09 : x = -2	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{10} & \frac{1}{5} \\ \frac{-3}{20} & \frac{-1}{5} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -10	x = -7	y = 5	
13 : det(A) = -40	x = 2	y = 3	
14 : det(A) = 6	x = 6	y = -2	z = -4
15 : det(A) = 25	x = -2	y = -4	z = 8

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Matrices02 Answers for No.10493

ExerciseMatrices02 Answers for No.10493

01 : det(A) = -9	02 : det(B) = -12
03 : det(C) = -21	04 : det(D) = -166
05 : det(E) = -4	06 : det(F) = 31
07 : m*det(C)-det(pE) = 235	08 : det(m*D)-p*det(F) = -290
09 : x = -3	10 : y = -3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{3} & \frac{1}{3} \\ \frac{1}{3} & \frac{-5}{6} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -23	x = 4	y = 6	
13 : det(A) = 8	x = -8	y = -6	
14 : det(A) = 1	x = 7	y = -3	z = -2
15 : det(A) = -11	x = 4	y = 3	z = -5

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Matrices02 Answers for No.10596

ExerciseMatrices02 Answers for No.10596

01 : det(A) = 16	02 : det(B) = 17
03 : det(C) = -12	04 : det(D) = -53
05 : det(E) = 175	06 : det(F) = 48
07 : m*det(C)-det(pE) = -1436	08 : det(m*D)-p*det(F) = -573
09 : x = 3	10 : y = -4

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

12 : det(A) = -11	x = -6	y = 5	
13 : det(A) = 6	x = -4	y = -5	
14 : det(A) = -26	x = -3	y = -2	z = 4
15 : det(A) = -7	x = -8	y = -4	z = -2

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Matrices02 Answers for No.10599

ExerciseMatrices02 Answers for No.10599

01 : det(A) = -15	02 : det(B) = -19
03 : det(C) = -10	04 : det(D) = 58
05 : det(E) = 54	06 : det(F) = 8
07 : m*det(C)-det(pE) = -442	08 : det(m*D)-p*det(F) = 42
09 : x = 2	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-5}{6} & \frac{2}{3} \\ \frac{-2}{3} & \frac{1}{3} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

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

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Matrices02 Answers for No.11068

ExerciseMatrices02 Answers for No.11068

01 : det(A) = 10	02 : det(B) = -14
03 : det(C) = 52	04 : det(D) = 4
05 : det(E) = 48	06 : det(F) = -22
07 : m*det(C)-det(pE) = -228	08 : det(m*D)-p*det(F) = 80
09 : x = 4	10 : y = -4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{3}{11} & \frac{-4}{11} \\ \frac{5}{11} & \frac{-3}{11} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

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

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Matrices02 Answers for No.11423

ExerciseMatrices02 Answers for No.11423

01 : det(A) = 8	02 : det(B) = 7
03 : det(C) = -44	04 : det(D) = -18
05 : det(E) = -80	06 : det(F) = 108
07 : m*det(C)-det(pE) = 508	08 : det(m*D)-p*det(F) = -378
09 : x = 4	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-2}{23} & \frac{-5}{23} \\ \frac{3}{23} & \frac{-4}{23} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -29	x = -2	y = -4	
13 : det(A) = -2	x = 8	y = -7	
14 : det(A) = -10	x = -7	y = -6	z = -4
15 : det(A) = 5	x = -6	y = -4	z = -8

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Matrices02 Answers for No.11440

ExerciseMatrices02 Answers for No.11440

01 : det(A) = 16	02 : det(B) = 15
03 : det(C) = 0	04 : det(D) = 24
05 : det(E) = -34	06 : det(F) = -12
07 : m*det(C)-det(pE) = 34	08 : det(m*D)-p*det(F) = 108
09 : x = 4	10 : y = -2

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

12 : det(A) = 25	x = -4	y = -5	
13 : det(A) = -8	x = -7	y = 4	
14 : det(A) = -10	x = -5	y = -8	z = -6
15 : det(A) = 16	x = -5	y = -3	z = 2

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Matrices02 Answers for No.11466

ExerciseMatrices02 Answers for No.11466

01 : det(A) = -7	02 : det(B) = -17
03 : det(C) = 8	04 : det(D) = -26
05 : det(E) = -84	06 : det(F) = -33
07 : m*det(C)-det(pE) = 696	08 : det(m*D)-p*det(F) = -168
09 : x = 3	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{9} & \frac{5}{36} \\ \frac{-1}{9} & \frac{-1}{9} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = -20	x = -6	y = 2	
13 : det(A) = -11	x = -5	y = -7	
14 : det(A) = -1	x = -6	y = -4	z = -3
15 : det(A) = 7	x = -3	y = -7	z = -2

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Matrices02 Answers for No.11863

ExerciseMatrices02 Answers for No.11863

01 : det(A) = 23	02 : det(B) = -19
03 : det(C) = -35	04 : det(D) = -44
05 : det(E) = -21	06 : det(F) = -75
07 : m*det(C)-det(pE) = 427	08 : det(m*D)-p*det(F) = -479
09 : x = 3	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{5} & \frac{-3}{20} \\ \frac{-1}{5} & \frac{-1}{10} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

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Matrices02 Answers for No.11967

ExerciseMatrices02 Answers for No.11967

01 : det(A) = -23	02 : det(B) = 8
03 : det(C) = 36	04 : det(D) = -217
05 : det(E) = -28	06 : det(F) = -112
07 : m*det(C)-det(pE) = 900	08 : det(m*D)-p*det(F) = -3136
09 : x = 3	10 : y = -3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{8} & \frac{3}{32} \\ \frac{1}{8} & \frac{-5}{32} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -11	x = -7	y = -4	
13 : det(A) = -4	x = 3	y = 2	
14 : det(A) = 22	x = 3	y = -4	z = -8
15 : det(A) = -27	x = -2	y = -6	z = -5

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Matrices02 Answers for No.13031

ExerciseMatrices02 Answers for No.13031

01 : det(A) = 16	02 : det(B) = 22
03 : det(C) = -39	04 : det(D) = -8
05 : det(E) = -19	06 : det(F) = -6
07 : m*det(C)-det(pE) = 1177	08 : det(m*D)-p*det(F) = 16
09 : x = 2	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{4}{7} & \frac{5}{7} \\ \frac{3}{7} & \frac{2}{7} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

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X Math@MUT XXXM5/1-6800311-00022XX

Matrices02 Answers for No.13093

ExerciseMatrices02 Answers for No.13093

01 : det(A) = -10	02 : det(B) = 22
03 : det(C) = 8	04 : det(D) = -120
05 : det(E) = -12	06 : det(F) = 40
07 : m*det(C)-det(pE) = 44	08 : det(m*D)-p*det(F) = -1960
09 : x = -4	10 : y = 4

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

12 : det(A) = -5	x = 4	y = 8	
13 : det(A) = -20	x = 3	y = 8	
14 : det(A) = -8	x = -2	y = 6	z = -4
15 : det(A) = -9	x = -2	y = 5	z = 6

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Matrices02 Answers for No.13163

ExerciseMatrices02 Answers for No.13163

01 : det(A) = 14	02 : det(B) = -9
03 : det(C) = 64	04 : det(D) = -107
05 : det(E) = 36	06 : det(F) = -56
07 : m*det(C)-det(pE) = 220	08 : det(m*D)-p*det(F) = -1656
09 : x = 2	10 : y = -3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-3}{20} & \frac{1}{5} \\ \frac{1}{10} & \frac{1}{5} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -27	x = 3	y = 2	
13 : det(A) = 3	x = -8	y = 4	
14 : det(A) = -16	x = -7	y = -6	z = 4
15 : det(A) = -4	x = 4	y = -5	z = -3

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Matrices02 Answers for No.13403

ExerciseMatrices02 Answers for No.13403

01 : det(A) = -19	02 : det(B) = -18
03 : det(C) = -45	04 : det(D) = -129
05 : det(E) = 76	06 : det(F) = -54
07 : m*det(C)-det(pE) = -256	08 : det(m*D)-p*det(F) = -2010
09 : x = 2	10 : y = 4

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

12 : det(A) = -19	x = -4	y = 5	
13 : det(A) = 14	x = 8	y = 5	
14 : det(A) = -15	x = -6	y = -4	z = 3
15 : det(A) = -6	x = -4	y = -3	z = 6

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Matrices02 Answers for No.13459

ExerciseMatrices02 Answers for No.13459

01 : det(A) = 7	02 : det(B) = 16
03 : det(C) = 2	04 : det(D) = -177
05 : det(E) = -69	06 : det(F) = -4
07 : m*det(C)-det(pE) = 4420	08 : det(m*D)-p*det(F) = -692
09 : x = 3	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-1}{6} & \frac{-1}{15} \\ \frac{-1}{6} & \frac{2}{15} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 24	x = -2	y = -3	
13 : det(A) = -14	x = -5	y = -2	
14 : det(A) = 2	x = 7	y = -4	z = -2
15 : det(A) = -2	x = -6	y = -3	z = -5

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Matrices02 Answers for No.13581

ExerciseMatrices02 Answers for No.13581

01 : det(A) = 8	02 : det(B) = 23
03 : det(C) = 96	04 : det(D) = -74
05 : det(E) = 3	06 : det(F) = -40
07 : m*det(C)-det(pE) = 111	08 : det(m*D)-p*det(F) = -176
09 : x = -4	10 : y = -2

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

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

X Math@MUT XXXM5/1-6800311-00027XX

Matrices02 Answers for No.13668

ExerciseMatrices02 Answers for No.13668

01 : det(A) = -16	02 : det(B) = -18
03 : det(C) = 14	04 : det(D) = 85
05 : det(E) = 84	06 : det(F) = 52
07 : m*det(C)-det(pE) = -5334	08 : det(m*D)-p*det(F) = 557
09 : x = -4	10 : y = 3

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

12 : det(A) = -3	x = 2	y = 3	
13 : det(A) = 27	x = 5	y = -6	
14 : det(A) = 8	x = -5	y = -4	z = 6
15 : det(A) = -5	x = -6	y = 7	z = -5

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X Math@MUT XXXM5/1-6800311-00028XX

Matrices02 Answers for No.13716

ExerciseMatrices02 Answers for No.13716

01 : det(A) = -7	02 : det(B) = 17
03 : det(C) = 5	04 : det(D) = 32
05 : det(E) = 48	06 : det(F) = -8
07 : m*det(C)-det(pE) = -3062	08 : det(m*D)-p*det(F) = 160
09 : x = 4	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{5}{31} & \frac{-4}{31} \\ \frac{4}{31} & \frac{3}{31} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 3	x = -5	y = -3	
13 : det(A) = 20	x = 4	y = -5	
14 : det(A) = 14	x = 6	y = -4	z = 7
15 : det(A) = -7	x = 2	y = -5	z = 3

X Math@MUT XXXM5/1-6800311-00029XX

Matrices02 Answers for No.13720

ExerciseMatrices02 Answers for No.13720

01 : det(A) = -16	02 : det(B) = 7
03 : det(C) = -44	04 : det(D) = -50
05 : det(E) = -14	06 : det(F) = -36
07 : m*det(C)-det(pE) = -20	08 : det(m*D)-p*det(F) = -378
09 : x = 2	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{3}{4} & \frac{1}{2} \\ \frac{5}{4} & \frac{1}{2} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = 21	x = -3	y = 4	
13 : det(A) = 5	x = -8	y = 5	
14 : det(A) = -14	x = 6	y = 2	z = 3
15 : det(A) = 29	x = -8	y = 3	z = 2

X Math@MUT XXXM5/1-6800311-00030XX

Matrices02 Answers for No.14307

ExerciseMatrices02 Answers for No.14307

01 : det(A) = -19	02 : det(B) = 16
03 : det(C) = -1	04 : det(D) = 104
05 : det(E) = 24	06 : det(F) = 16
07 : m*det(C)-det(pE) = -26	08 : det(m*D)-p*det(F) = 400
09 : x = -3	10 : y = -4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} -1 & 1 \\ \frac{5}{4} & -1 \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

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X Math@MUT XXXM5/1-6800311-00031XX

Matrices02 Answers for No.14598

ExerciseMatrices02 Answers for No.14598

01 : det(A) = -15	02 : det(B) = -9
03 : det(C) = 36	04 : det(D) = 14
05 : det(E) = 0	06 : det(F) = 24
07 : m*det(C)-det(pE) = 72	08 : det(m*D)-p*det(F) = -16
09 : x = -2	10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{9} & \frac{1}{9} \\ -\frac{4}{27} & \frac{5}{27} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

12 : det(A) = 34	x = 5	y = 3	
13 : det(A) = -1	x = 2	y = 6	
14 : det(A) = -12	x = -6	y = -7	z = 2
15 : det(A) = -4	x = 7	y = -3	z = 4

X Math@MUT XXXM5/1-6800311-00032XX

Matrices02 Answers for No.14624

ExerciseMatrices02 Answers for No.14624

01 : det(A) = 16	02 : det(B) = 17
03 : det(C) = 30	04 : det(D) = -2
05 : det(E) = -20	06 : det(F) = -78
07 : m*det(C)-det(pE) = 250	08 : det(m*D)-p*det(F) = 138
09 : x = -2	10 : y = -2

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

12 : det(A) = -25	x = 8	y = 2	
13 : det(A) = -2	x = -2	y = 7	
14 : det(A) = -11	x = -2	y = 7	z = -5
15 : det(A) = -10	x = 4	y = -5	z = -3

X Math@MUT XXXM5/1-6800311-00033XX

Matrices02 Answers for No.14641

ExerciseMatrices02 Answers for No.14641

01 : det(A) = -10	02 : det(B) = 8
03 : det(C) = -16	04 : det(D) = 9
05 : det(E) = 51	06 : det(F) = -48
07 : m*det(C)-det(pE) = -1393	08 : det(m*D)-p*det(F) = 153
09 : x = -3	10 : y = -4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} -\frac{1}{4} & -\frac{3}{8} \\ -\frac{1}{2} & -\frac{1}{4} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

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

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X Math@MUT XXXM5/1-6800311-00034XX

Matrices02 Answers for No.14681

ExerciseMatrices02 Answers for No.14681

01 : det(A) = 23	02 : det(B) = -14
03 : det(C) = 10	04 : det(D) = -33
05 : det(E) = -64	06 : det(F) = 64
07 : m*det(C)-det(pE) = 104	08 : det(m*D)-p*det(F) = -592
09 : x = 2	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{5}{4} & \frac{-3}{4} \\ \frac{-1}{2} & \frac{1}{2} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

X Math@MUT XXXM5/1-6800311-00035XX

Matrices02 Answers for No.14688

ExerciseMatrices02 Answers for No.14688

01 : det(A) = 17	02 : det(B) = 14
03 : det(C) = 22	04 : det(D) = -56
05 : det(E) = -52	06 : det(F) = 42
07 : m*det(C)-det(pE) = 140	08 : det(m*D)-p*det(F) = -938
09 : x = -4	10 : y = -4

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

12 : det(A) = 23	x = -6	y = -8	
13 : det(A) = 5	x = 2	y = 3	
14 : det(A) = -14	x = -4	y = -5	z = -7
15 : det(A) = 9	x = 8	y = -6	z = 5

X Math@MUT XXXM5/1-6800311-00036XX

Matrices02 Answers for No.14703

ExerciseMatrices02 Answers for No.14703

01 : det(A) = 20	02 : det(B) = -8
03 : det(C) = -84	04 : det(D) = 75
05 : det(E) = -32	06 : det(F) = 12
07 : m*det(C)-det(pE) = 1880	08 : det(m*D)-p*det(F) = 252
09 : x = 4	10 : y = -3

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

12 : det(A) = 13	x = 2	y = -6	
13 : det(A) = -1	x = -5	y = 4	
14 : det(A) = -21	x = -7	y = -8	z = -3
15 : det(A) = -1	x = -4	y = -5	z = -3

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X Math@MUT XXXM5/1-6800311-00037XX

Matrices02 Answers for No.14714

ExerciseMatrices02 Answers for No.14714

01 : det(A) = 21	02 : det(B) = -16
03 : det(C) = 7	04 : det(D) = 28
05 : det(E) = 32	06 : det(F) = -4
07 : m*det(C)-det(pE) = -836	08 : det(m*D)-p*det(F) = 460
09 : x = 4	10 : y = 4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{7} & \frac{-1}{7} \\ \frac{-3}{28} & \frac{-1}{7} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

X Math@MUT XXXM5/1-6800311-00038XX

Matrices02 Answers for No.14746

ExerciseMatrices02 Answers for No.14746

01 : det(A) = -15	02 : det(B) = -22
03 : det(C) = 32	04 : det(D) = 19
05 : det(E) = -8	06 : det(F) = 108
07 : m*det(C)-det(pE) = 344	08 : det(m*D)-p*det(F) = -20
09 : x = 3	10 : y = 4

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

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

X Math@MUT XXXM5/1-6800311-00039XX

Matrices02 Answers for No.15000

ExerciseMatrices02 Answers for No.15000

01 : det(A) = -18	02 : det(B) = -18
03 : det(C) = 6	04 : det(D) = -50
05 : det(E) = 144	06 : det(F) = 19
07 : m*det(C)-det(pE) = -120	08 : det(m*D)-p*det(F) = -819
09 : x = -2	10 : y = 3

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-3}{7} & \frac{-2}{7} \\ \frac{-4}{7} & \frac{-5}{7} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

12 : det(A) = -11	x = -3	y = 7	
13 : det(A) = 21	x = -2	y = 7	
14 : det(A) = 16	x = 2	y = 3	z = 8
15 : det(A) = -6	x = -3	y = -5	z = -6

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X Math@MUT XXXM5/1-6800311-00040XX

Matrices02 Answers for No.15012

ExerciseMatrices02 Answers for No.15012

01 : det(A) = -22	02 : det(B) = 20
03 : det(C) = -30	04 : det(D) = 30
05 : det(E) = 33	06 : det(F) = 74
07 : m*det(C)-det(pE) = -294	08 : det(m*D)-p*det(F) = -118
09 : x = -3	10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{2}{11} & \frac{-3}{22} \\ \frac{1}{11} & \frac{2}{11} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

X Math@MUT XXXM5/1-6800311-00041XX

Matrices02 Answers for No.15024

ExerciseMatrices02 Answers for No.15024

01 : det(A) = -13	02 : det(B) = 16
03 : det(C) = -10	04 : det(D) = 64
05 : det(E) = 42	06 : det(F) = 0
07 : m*det(C)-det(pE) = -72	08 : det(m*D)-p*det(F) = 576
09 : x = -4	10 : y = 2

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

12 : det(A) = -26	x = 8	y = -6	
13 : det(A) = 22	x = 3	y = -6	
14 : det(A) = -5	x = -8	y = 3	z = 7
15 : det(A) = -8	x = 4	y = 3	z = -2

X Math@MUT XXXM5/1-6800311-00042XX

Matrices02 Answers for No.15032

ExerciseMatrices02 Answers for No.15032

01 : det(A) = 10	02 : det(B) = 13
03 : det(C) = 56	04 : det(D) = -81
05 : det(E) = 36	06 : det(F) = 44
07 : m*det(C)-det(pE) = -860	08 : det(m*D)-p*det(F) = -456
09 : x = 3	10 : y = -4

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

12 : det(A) = 19	x = -3	y = -2	
13 : det(A) = -35	x = 3	y = -6	
14 : det(A) = -2	x = 6	y = 4	z = 3
15 : det(A) = 2	x = 2	y = -6	z = 4

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