

X Math@MUT XX M5/1-6600311-00001XX

Matrices02 Answers for No.9594

ExerciseMatrices02 Answers for No.9594

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|-------------------------------|-------------------------------|
| 01 : det(A) = 22 | 02 : det(B) = -16 |
| 03 : det(C) = -6 | 04 : det(D) = 70 |
| 05 : det(E) = 48 | 06 : det(F) = 71 |
| 07 : m*det(C)-det(pE) = -3078 | 08 : det(m*D)-p*det(F) = -214 |
| 09 : x = 2 | 10 : y = -3 |

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

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|-------------------|--------|-------|--------|
| 12 : det(A) = 14 | x = 3 | y = 2 | |
| 13 : det(A) = 20 | x = -3 | y = 2 | |
| 14 : det(A) = -20 | x = -4 | y = 5 | z = -2 |
| 15 : det(A) = 10 | x = 3 | y = 7 | z = -6 |

X Math@MUT XX M5/1-6600311-00002XX

Matrices02 Answers for No.9608

ExerciseMatrices02 Answers for No.9608

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|-----------------------------|------------------------------|
| 01 : det(A) = -15 | 02 : det(B) = 7 |
| 03 : det(C) = -40 | 04 : det(D) = 57 |
| 05 : det(E) = -12 | 06 : det(F) = -50 |
| 07 : m*det(C)-det(pE) = 688 | 08 : det(m*D)-p*det(F) = 428 |
| 09 : x = -2 | 10 : y = 4 |

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

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|-------------------|-------|--------|-------|
| 12 : det(A) = -12 | x = 5 | y = -2 | |
| 13 : det(A) = 26 | x = 7 | y = -4 | |
| 14 : det(A) = 12 | x = 2 | y = 4 | z = 6 |
| 15 : det(A) = 1 | x = 5 | y = 2 | z = 6 |

X Math@MUT XX M5/1-6600311-00003XX

Matrices02 Answers for No.9646

ExerciseMatrices02 Answers for No.9646

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|------------------------------|------------------------------|
| 01 : det(A) = 8 | 02 : det(B) = 12 |
| 03 : det(C) = -30 | 04 : det(D) = -8 |
| 05 : det(E) = 76 | 06 : det(F) = -45 |
| 07 : m*det(C)-det(pE) = -166 | 08 : det(m*D)-p*det(F) = -27 |
| 09 : x = 2 | 10 : y = -3 |

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

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

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Matrices02 Answers for No.9649

ExerciseMatrices02 Answers for No.9649

- 01 : det(A) = 13
- 02 : det(B) = -7
- 03 : det(C) = 9
- 04 : det(D) = -104
- 05 : det(E) = 66
- 06 : det(F) = -28
- 07 : m*det(C)-det(pE) = -519
- 08 : det(m*D)-p*det(F) = -48
- 09 : x = 4
- 10 : y = -2

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

- 12 : det(A) = 24 x = -6 y = 7
- 13 : det(A) = 32 x = -3 y = 5
- 14 : det(A) = -12 x = -5 y = -3 z = 6
- 15 : det(A) = -2 x = 2 y = -4 z = -5

Matrices02 Answers for No.9669

ExerciseMatrices02 Answers for No.9669

- 01 : det(A) = -11
- 02 : det(B) = -23
- 03 : det(C) = -34
- 04 : det(D) = -2
- 05 : det(E) = -44
- 06 : det(F) = -6
- 07 : m*det(C)-det(pE) = 318
- 08 : det(m*D)-p*det(F) = 10
- 09 : x = -4
- 10 : y = -4

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

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

Matrices02 Answers for No.9717

ExerciseMatrices02 Answers for No.9717

- 01 : det(A) = -22
- 02 : det(B) = -9
- 03 : det(C) = -56
- 04 : det(D) = 92
- 05 : det(E) = -64
- 06 : det(F) = 58
- 07 : m*det(C)-det(pE) = 4040
- 08 : det(m*D)-p*det(F) = -140
- 09 : x = 2
- 10 : y = -3

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

- 12 : det(A) = -3 x = 6 y = -8
- 13 : det(A) = 20 x = 8 y = -4
- 14 : det(A) = 1 x = 7 y = -6 z = 4
- 15 : det(A) = 6 x = -8 y = 5 z = 6

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Matrices02 Answers for No.9763

ExerciseMatrices02 Answers for No.9763

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|------------------------------|-------------------------------|
| 01 : det(A) = 17 | 02 : det(B) = 10 |
| 03 : det(C) = -43 | 04 : det(D) = -42 |
| 05 : det(E) = 76 | 06 : det(F) = 52 |
| 07 : m*det(C)-det(pE) = -162 | 08 : det(m*D)-p*det(F) = -220 |
| 09 : x = -3 | 10 : y = 2 |

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{8} & \frac{1}{8} \\ \frac{5}{24} & \frac{-1}{8} \end{bmatrix} \right), \begin{bmatrix} \phantom{\frac{1}{8}} \\ \phantom{\frac{1}{8}} \end{bmatrix}$$

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|------------------|--------|--------|--------|
| 12 : det(A) = -7 | x = 7 | y = -6 | |
| 13 : det(A) = 24 | x = 2 | y = -8 | |
| 14 : det(A) = 12 | x = -7 | y = 3 | z = -8 |
| 15 : det(A) = -6 | x = 5 | y = -8 | z = 7 |

Matrices02 Answers for No.9877

ExerciseMatrices02 Answers for No.9877

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|-------------------------------|------------------------------|
| 01 : det(A) = 14 | 02 : det(B) = -7 |
| 03 : det(C) = 8 | 04 : det(D) = -16 |
| 05 : det(E) = 116 | 06 : det(F) = -16 |
| 07 : m*det(C)-det(pE) = -7400 | 08 : det(m*D)-p*det(F) = -80 |
| 09 : x = -4 | 10 : y = 3 |

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

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

Matrices02 Answers for No.9911

ExerciseMatrices02 Answers for No.9911

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|-----------------------------|-----------------------------|
| 01 : det(A) = -18 | 02 : det(B) = -15 |
| 03 : det(C) = 38 | 04 : det(D) = 1 |
| 05 : det(E) = 15 | 06 : det(F) = -60 |
| 07 : m*det(C)-det(pE) = 137 | 08 : det(m*D)-p*det(F) = 76 |
| 09 : x = 2 | 10 : y = -3 |

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

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|-------------------|--------|--------|--------|
| 12 : det(A) = -2 | x = 6 | y = -4 | |
| 13 : det(A) = -18 | x = -3 | y = -2 | |
| 14 : det(A) = -9 | x = -6 | y = -3 | z = -8 |
| 15 : det(A) = -7 | x = 8 | y = -4 | z = -2 |

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Matrices02 Answers for No.10027

ExerciseMatrices02 Answers for No.10027

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|------------------------------|--------------------------------|
| 01 : det(A) = -13 | 02 : det(B) = 18 |
| 03 : det(C) = -64 | 04 : det(D) = -144 |
| 05 : det(E) = 48 | 06 : det(F) = -56 |
| 07 : m*det(C)-det(pE) = -240 | 08 : det(m*D)-p*det(F) = -1240 |
| 09 : x = -2 | 10 : y = 3 |

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

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|-------------------|--------|--------|--------|
| 12 : det(A) = 9 | x = 5 | y = -4 | |
| 13 : det(A) = -16 | x = 8 | y = 7 | |
| 14 : det(A) = -8 | x = -4 | y = 7 | z = -5 |
| 15 : det(A) = -11 | x = 4 | y = 3 | z = 7 |

Matrices02 Answers for No.10063

ExerciseMatrices02 Answers for No.10063

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|-----------------------------|-------------------------------|
| 01 : det(A) = -18 | 02 : det(B) = -7 |
| 03 : det(C) = -68 | 04 : det(D) = -24 |
| 05 : det(E) = -13 | 06 : det(F) = 40 |
| 07 : m*det(C)-det(pE) = 696 | 08 : det(m*D)-p*det(F) = -256 |
| 09 : x = -4 | 10 : y = 4 |

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

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|-------------------|--------|--------|-------|
| 12 : det(A) = -4 | x = 6 | y = -4 | |
| 13 : det(A) = -16 | x = -2 | y = -6 | |
| 14 : det(A) = 20 | x = -7 | y = 4 | z = 2 |
| 15 : det(A) = 12 | x = 6 | y = -8 | z = 3 |

Matrices02 Answers for No.10120

ExerciseMatrices02 Answers for No.10120

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|-------------------------------|------------------------------|
| 01 : det(A) = 15 | 02 : det(B) = 13 |
| 03 : det(C) = 3 | 04 : det(D) = 2 |
| 05 : det(E) = 78 | 06 : det(F) = -88 |
| 07 : m*det(C)-det(pE) = -4983 | 08 : det(m*D)-p*det(F) = 370 |
| 09 : x = 2 | 10 : y = -4 |

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

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

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Matrices02 Answers for No.10367

ExerciseMatrices02 Answers for No.10367

- 01 : det(A) = -16
- 02 : det(B) = -14
- 03 : det(C) = 45
- 04 : det(D) = 24
- 05 : det(E) = 40
- 06 : det(F) = -72
- 07 : m*det(C)-det(pE) = -2425
- 08 : det(m*D)-p*det(F) = 504
- 09 : x = -4
- 10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{2}{11} & \frac{-3}{11} \\ \frac{5}{11} & \frac{-2}{11} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

- 12 : det(A) = 36 x = 5 y = -6
- 13 : det(A) = 2 x = -3 y = -2
- 14 : det(A) = 11 x = -4 y = -6 z = 3
- 15 : det(A) = -24 x = -4 y = 6 z = 3

Matrices02 Answers for No.10372

ExerciseMatrices02 Answers for No.10372

- 01 : det(A) = 20
- 02 : det(B) = 16
- 03 : det(C) = 54
- 04 : det(D) = 60
- 05 : det(E) = -26
- 06 : det(F) = 132
- 07 : m*det(C)-det(pE) = 1772
- 08 : det(m*D)-p*det(F) = -288
- 09 : x = -3
- 10 : y = 4

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

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

Matrices02 Answers for No.10375

ExerciseMatrices02 Answers for No.10375

- 01 : det(A) = 7
- 02 : det(B) = -13
- 03 : det(C) = -21
- 04 : det(D) = 41
- 05 : det(E) = 12
- 06 : det(F) = 55
- 07 : m*det(C)-det(pE) = -831
- 08 : det(m*D)-p*det(F) = 149
- 09 : x = -3
- 10 : y = -3

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

- 12 : det(A) = 14 x = -7 y = -2
- 13 : det(A) = -16 x = -3 y = 4
- 14 : det(A) = -9 x = -3 y = -4 z = 7
- 15 : det(A) = 3 x = 3 y = -4 z = 2

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Matrices02 Answers for No.10426

ExerciseMatrices02 Answers for No.10426

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|-----------------------------|-------------------------------|
| 01 : det(A) = -20 | 02 : det(B) = -16 |
| 03 : det(C) = 10 | 04 : det(D) = -89 |
| 05 : det(E) = -51 | 06 : det(F) = -6 |
| 07 : m*det(C)-det(pE) = 438 | 08 : det(m*D)-p*det(F) = -789 |
| 09 : x = 3 | 10 : y = -4 |

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-2}{29} & \frac{-5}{29} \\ \frac{5}{29} & \frac{-2}{29} \end{bmatrix} \right), \begin{bmatrix} \\ \\ \end{bmatrix}$$

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

Matrices02 Answers for No.10628

ExerciseMatrices02 Answers for No.10628

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|-----------------------------|------------------------------|
| 01 : det(A) = 13 | 02 : det(B) = -9 |
| 03 : det(C) = 98 | 04 : det(D) = 96 |
| 05 : det(E) = -5 | 06 : det(F) = 42 |
| 07 : m*det(C)-det(pE) = 299 | 08 : det(m*D)-p*det(F) = 822 |
| 09 : x = 3 | 10 : y = 2 |

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

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|------------------|--------|--------|-------|
| 12 : det(A) = 18 | x = -2 | y = -3 | |
| 13 : det(A) = 6 | x = -4 | y = 7 | |
| 14 : det(A) = 20 | x = 8 | y = -7 | z = 6 |
| 15 : det(A) = 4 | x = 6 | y = 3 | z = 2 |

Matrices02 Answers for No.11408

ExerciseMatrices02 Answers for No.11408

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|----------------------------|------------------------------|
| 01 : det(A) = 9 | 02 : det(B) = -7 |
| 03 : det(C) = -32 | 04 : det(D) = -9 |
| 05 : det(E) = -168 | 06 : det(F) = -24 |
| 07 : m*det(C)-det(pE) = 72 | 08 : det(m*D)-p*det(F) = -57 |
| 09 : x = -3 | 10 : y = -2 |

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

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

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Matrices02 Answers for No.11560

ExerciseMatrices02 Answers for No.11560

- 01 : det(A) = 14
- 02 : det(B) = 9
- 03 : det(C) = 70
- 04 : det(D) = 82
- 05 : det(E) = -60
- 06 : det(F) = -6
- 07 : m*det(C)-det(pE) = 3980
- 08 : det(m*D)-p*det(F) = 352
- 09 : x = 2
- 10 : y = 2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{4}{45} & \frac{1}{9} \\ \frac{1}{9} & \frac{-1}{9} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

Matrices02 Answers for No.11806

ExerciseMatrices02 Answers for No.11806

- 01 : det(A) = 9
- 02 : det(B) = 13
- 03 : det(C) = 80
- 04 : det(D) = -114
- 05 : det(E) = 12
- 06 : det(F) = 80
- 07 : m*det(C)-det(pE) = -688
- 08 : det(m*D)-p*det(F) = -434
- 09 : x = -4
- 10 : y = -3

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

- 12 : det(A) = 35 x = -8 y = 6
- 13 : det(A) = -10 x = -5 y = -6
- 14 : det(A) = 9 x = -5 y = -6 z = -4
- 15 : det(A) = 20 x = 2 y = -8 z = 3

Matrices02 Answers for No.12219

ExerciseMatrices02 Answers for No.12219

- 01 : det(A) = -8
- 02 : det(B) = -21
- 03 : det(C) = 56
- 04 : det(D) = 64
- 05 : det(E) = -48
- 06 : det(F) = -59
- 07 : m*det(C)-det(pE) = 440
- 08 : det(m*D)-p*det(F) = 182
- 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) = -22 x = 2 y = 8
- 13 : det(A) = 8 x = -5 y = -6
- 14 : det(A) = 4 x = -3 y = 5 z = 6
- 15 : det(A) = 2 x = 4 y = 2 z = -3

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Matrices02 Answers for No.12954

ExerciseMatrices02 Answers for No.12954

- 01 : det(A) = -12
- 02 : det(B) = -21
- 03 : det(C) = 6
- 04 : det(D) = 45
- 05 : det(E) = -58
- 06 : det(F) = -84
- 07 : m*det(C)-det(pE) = 70
- 08 : det(m*D)-p*det(F) = 264
- 09 : x = -3
- 10 : y = -2

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{3}{17} & \frac{-4}{17} \\ \frac{-2}{17} & \frac{-3}{17} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

- 12 : det(A) = -1 x = -5 y = -2
- 13 : det(A) = -22 x = -3 y = 4
- 14 : det(A) = -5 x = -3 y = 6 z = 2
- 15 : det(A) = -1 x = 3 y = 2 z = 5

Matrices02 Answers for No.12964

ExerciseMatrices02 Answers for No.12964

- 01 : det(A) = -14
- 02 : det(B) = 13
- 03 : det(C) = 17
- 04 : det(D) = -90
- 05 : det(E) = -44
- 06 : det(F) = -78
- 07 : m*det(C)-det(pE) = 369
- 08 : det(m*D)-p*det(F) = 66
- 09 : x = -4
- 10 : y = 4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-5}{24} & \frac{-1}{8} \\ \frac{1}{8} & \frac{-1}{8} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

- 12 : det(A) = -3 x = 4 y = -6
- 13 : det(A) = -22 x = -8 y = -5
- 14 : det(A) = 24 x = 7 y = -3 z = -6
- 15 : det(A) = -29 x = 2 y = -5 z = -3

Matrices02 Answers for No.12971

ExerciseMatrices02 Answers for No.12971

- 01 : det(A) = -14
- 02 : det(B) = -14
- 03 : det(C) = 0
- 04 : det(D) = 72
- 05 : det(E) = 108
- 06 : det(F) = 152
- 07 : m*det(C)-det(pE) = -2916
- 08 : det(m*D)-p*det(F) = -168
- 09 : x = 4
- 10 : y = 2

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

- 12 : det(A) = 12 x = 7 y = -4
- 13 : det(A) = -24 x = 8 y = -4
- 14 : det(A) = -21 x = 4 y = -6 z = -7
- 15 : det(A) = -8 x = -5 y = 7 z = 4

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Matrices02 Answers for No.13023

ExerciseMatrices02 Answers for No.13023

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|---------------------------|------------------------------|
| 01 : det(A) = -12 | 02 : det(B) = 23 |
| 03 : det(C) = -24 | 04 : det(D) = 51 |
| 05 : det(E) = -104 | 06 : det(F) = -12 |
| 07 : m*det(C)-det(pE) = 8 | 08 : det(m*D)-p*det(F) = 828 |
| 09 : x = -2 | 10 : y = -3 |

$$NoI1 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-3}{29} & \frac{-4}{29} \\ \frac{5}{29} & \frac{-3}{29} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

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

Matrices02 Answers for No.13033

ExerciseMatrices02 Answers for No.13033

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|------------------------------|-------------------------------|
| 01 : det(A) = 15 | 02 : det(B) = -16 |
| 03 : det(C) = -12 | 04 : det(D) = -88 |
| 05 : det(E) = 92 | 06 : det(F) = 8 |
| 07 : m*det(C)-det(pE) = -116 | 08 : det(m*D)-p*det(F) = -360 |
| 09 : x = 2 | 10 : y = 4 |

$$NoI1 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{-2}{7} & \frac{3}{14} \\ \frac{-1}{7} & \frac{-1}{7} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

- | | | | |
|------------------|--------|--------|--------|
| 12 : det(A) = 21 | x = -7 | y = 2 | |
| 13 : det(A) = 2 | x = 8 | y = 3 | |
| 14 : det(A) = 4 | x = 5 | y = 8 | z = -4 |
| 15 : det(A) = 18 | x = 5 | y = -8 | z = -3 |

Matrices02 Answers for No.13197

ExerciseMatrices02 Answers for No.13197

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|-----------------------------|-----------------------------|
| 01 : det(A) = -19 | 02 : det(B) = -18 |
| 03 : det(C) = 30 | 04 : det(D) = 9 |
| 05 : det(E) = -30 | 06 : det(F) = -12 |
| 07 : m*det(C)-det(pE) = 870 | 08 : det(m*D)-p*det(F) = 72 |
| 09 : x = -2 | 10 : y = 3 |

$$NoI1 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{6} & \frac{1}{3} \\ \frac{1}{6} & \frac{-1}{6} \end{bmatrix}, \begin{bmatrix} \\ \end{bmatrix} \right)$$

- | | | | |
|-------------------|--------|--------|-------|
| 12 : det(A) = 16 | x = 7 | y = -2 | |
| 13 : det(A) = 26 | x = 8 | y = -5 | |
| 14 : det(A) = -6 | x = -8 | y = -4 | z = 5 |
| 15 : det(A) = -31 | x = 2 | y = 6 | z = 5 |

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Matrices02 Answers for No.13907

ExerciseMatrices02 Answers for No.13907

- 01 : det(A) = -9
- 02 : det(B) = -22
- 03 : det(C) = 6
- 04 : det(D) = 18
- 05 : det(E) = 16
- 06 : det(F) = 16
- 07 : m*det(C)-det(pE) = -110
- 08 : det(m*D)-p*det(F) = 130
- 09 : x = 4
- 10 : y = -4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{2}{17} & \frac{-3}{17} \\ \frac{3}{17} & \frac{4}{17} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

X Math@MUT XXXM5/1-6600311-00029XX

Matrices02 Answers for No.13991

ExerciseMatrices02 Answers for No.13991

- 01 : det(A) = 20
- 02 : det(B) = 19
- 03 : det(C) = 38
- 04 : det(D) = 28
- 05 : det(E) = 108
- 06 : det(F) = 52
- 07 : m*det(C)-det(pE) = -2878
- 08 : det(m*D)-p*det(F) = -128
- 09 : x = 4
- 10 : y = 4

$$No11 = \left(\text{Inv}(G) = \begin{bmatrix} \frac{1}{4} & \frac{1}{4} \\ \frac{-1}{10} & \frac{1}{10} \end{bmatrix} \right), \begin{bmatrix} \\ \end{bmatrix}$$

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

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Matrices02 Answers for No.14005

ExerciseMatrices02 Answers for No.14005

- 01 : det(A) = -18
- 02 : det(B) = -20
- 03 : det(C) = -33
- 04 : det(D) = 140
- 05 : det(E) = -12
- 06 : det(F) = 21
- 07 : m*det(C)-det(pE) = 63
- 08 : det(m*D)-p*det(F) = 98
- 09 : x = -2
- 10 : y = -4

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

- 12 : det(A) = 1 x = -4 y = -8
- 13 : det(A) = -9 x = -5 y = 7
- 14 : det(A) = 12 x = 8 y = -2 z = -6
- 15 : det(A) = -6 x = -7 y = 6 z = 5

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Matrices02 Answers for No.14157

ExerciseMatrices02 Answers for No.14157

- 01 : $\det(A) = 14$
- 02 : $\det(B) = 20$
- 03 : $\det(C) = 1$
- 04 : $\det(D) = 171$
- 05 : $\det(E) = -144$
- 06 : $\det(F) = 27$
- 07 : $m \cdot \det(C) - \det(pE) = 1156$
- 08 : $\det(m \cdot D) - p \cdot \det(F) = 2682$
- 09 : $x = -2$
- 10 : $y = -2$

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

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

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