

X Math@MUT XX M5/1-6300111-00001XX
Matrices02 for No.9012

$$A = [-13], B = [15], C = \begin{bmatrix} -5 & 4 \\ -4 & -7 \end{bmatrix}, D = \begin{bmatrix} -6 & 5 \\ -4 & 2 \end{bmatrix}, E = \begin{bmatrix} 4 & -4 & 3 \\ 0 & 4 & -2 \\ 3 & -4 & 2 \end{bmatrix}, F = \begin{bmatrix} 2 & -2 & -3 \\ -2 & -3 & 0 \\ -4 & 3 & -3 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 2 & -2 \\ x & 3 \end{pmatrix} = -2 \right], No10 = \left[\det \begin{pmatrix} 4 & -3 & 4 \\ 3 & 3 & y \\ 3 & -2 & 2 \end{pmatrix} = -16 \right], No11 = \left[G = \begin{bmatrix} 3 & -5 \\ 5 & -5 \end{bmatrix} \right]$$

$$System1 = \begin{bmatrix} -4x + 3y = -11 \\ -2x - 4y = -44 \end{bmatrix}, \quad , System2 = \begin{bmatrix} -2x - 5y = -26 \\ 5x + 5y = 20 \end{bmatrix}, \quad , System3 = \begin{bmatrix} -3x + 2z = -2 \\ 3x + 2y = 10 \\ 2y - z = 20 \end{bmatrix}, \quad , System4 = \begin{bmatrix} 3y - 2z = 0 \\ -2x + 2y = 10 \\ -x + z = 4 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00002XX
Matrices02 for No.9016

$$A = [12], B = [-22], C = \begin{bmatrix} -5 & -6 \\ -7 & -5 \end{bmatrix}, D = \begin{bmatrix} -11 & -4 \\ -7 & 7 \end{bmatrix}, E = \begin{bmatrix} -3 & 0 & 3 \\ 3 & 3 & -4 \\ -3 & 4 & 3 \end{bmatrix}, F = \begin{bmatrix} 3 & 4 & -2 \\ -3 & -2 & 0 \\ 2 & -3 & 4 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & 4 \\ 2 & -2 \end{pmatrix} = -4 \right], No10 = \left[\det \begin{pmatrix} 4 & 2 & y \\ -3 & -2 & 3 \\ -3 & 2 & 2 \end{pmatrix} = -82 \right], No11 = \left[G = \begin{bmatrix} -3 & 5 \\ 4 & 3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -4x + 5y = -9 \\ -4x + 2y = -18 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 3x - y = -13 \\ x - 5y = -23 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -x + z = -8 \\ 3x + 2y = 7 \\ -3y - 3z = 21 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2y - z = -4 \\ 2x - 3y = 2 \\ -3x + 2z = 4 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00003XX
Matrices02 for No.9018

$$A = [21], B = [-12], C = \begin{bmatrix} 5 & 3 \\ -7 & -8 \end{bmatrix}, D = \begin{bmatrix} 3 & -10 \\ -4 & -12 \end{bmatrix}, E = \begin{bmatrix} 2 & 4 & -2 \\ 3 & -4 & -3 \\ -3 & 0 & 3 \end{bmatrix}, F = \begin{bmatrix} 2 & -2 & -3 \\ -4 & 3 & 0 \\ -2 & -3 & 2 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & 4 \\ -2 & -4 \end{pmatrix} = 24 \right], No10 = \left[\det \begin{pmatrix} 3 & 3 & -2 \\ -2 & 4 & 3 \\ 2 & y & 2 \end{pmatrix} = 50 \right], No11 = \left[G = \begin{bmatrix} -5 & 5 \\ -4 & 2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -5x + y = -9 \\ -2x + y = 0 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} x - 4y = 30 \\ x - 2y = 14 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3x + z = 6 \\ 3x - y = 4 \\ -y + 2z = -20 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3y + z = -11 \\ 2x + 3y = 19 \\ x + z = 6 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00004XX
Matrices02 for No.9036

$$A = [19], B = [-17], C = \begin{bmatrix} 2 & -4 \\ -4 & -6 \end{bmatrix}, D = \begin{bmatrix} -5 & -6 \\ 3 & -10 \end{bmatrix}, E = \begin{bmatrix} 3 & 0 & 3 \\ -2 & 2 & -4 \\ -2 & -3 & 2 \end{bmatrix}, F = \begin{bmatrix} 2 & 0 & 2 \\ 4 & 4 & 3 \\ -2 & 4 & 3 \end{bmatrix}, \begin{bmatrix} m = 3 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -4 & 4 \\ 4 & x \end{pmatrix} = -28 \right], No10 = \left[\det \begin{pmatrix} 2 & 3 & -4 \\ 4 & 3 & y \\ -4 & 4 & 4 \end{pmatrix} = -96 \right], No11 = \left[G = \begin{bmatrix} -5 & 3 \\ -3 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 2x - y = 7 \\ 5x + 4y = -2 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -5x + 5y = -60 \\ -2x - 2y = -8 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x + 2z = -16 \\ 2x - 2y = -10 \\ -2y - z = -9 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -x - 2y = 13 \\ -2x + 3z = -1 \\ 3y + z = -14 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00005XX
Matrices02 for No.9037

$$No09 = \left[\det \begin{pmatrix} x & 4 \\ -4 & -2 \end{pmatrix} = 22 \right], No10 = \left[\det \begin{pmatrix} -3 & y & 2 \\ -2 & -2 & 2 \\ -4 & -3 & 3 \end{pmatrix} = -12 \right], No11 = \left[G = \begin{bmatrix} 2 & -5 \\ -3 & -2 \end{bmatrix} \right]$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6300111-00006XX  
Matrices02 for No.9138
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$$No09 = \left[\det \begin{pmatrix} 3 & x \\ 3 & 3 \end{pmatrix} = 0 \right], No10 = \left[\det \begin{pmatrix} -2 & -2 & 2 \\ y & 3 & 4 \\ 4 & 3 & -2 \end{pmatrix} = -26 \right], No11 = \left[G = \begin{bmatrix} -2 & -5 \\ -4 & -3 \end{bmatrix} \right]$$

[illegible]

X Math@MUT XX M5/1-6300111-00007XX
Matrices02 for No.9602

$$A = [-12], B = [-15], C = \begin{bmatrix} 2 & 5 \\ 2 & 3 \end{bmatrix}, D = \begin{bmatrix} -12 & -11 \\ -9 & -3 \end{bmatrix}, E = \begin{bmatrix} -3 & 3 & 0 \\ -2 & -4 & 3 \\ 2 & -2 & -4 \end{bmatrix}, F = \begin{bmatrix} 2 & 0 & -4 \\ 4 & 4 & 4 \\ -4 & 3 & -2 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 3 \end{bmatrix}$$

$$No09 = \left[\det \left(\begin{bmatrix} 4 & 2 \\ 4 & x \end{bmatrix} \right) = -20 \right], No10 = \left[\det \left(\begin{bmatrix} 3 & 4 & -2 \\ -3 & -4 & -3 \\ -4 & y & 3 \end{bmatrix} \right) = 110 \right], No11 = \left[G = \begin{bmatrix} 2 & -3 \\ 4 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 4x - 2y = 28 \\ x - y = 9 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x + 3y = -2 \\ 3x - 4y = -9 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3y + z = -2 \\ 3x + z = 4 \\ -x - y = -6 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -y + z = -2 \\ x - 2y = -14 \\ 2x - 3z = -17 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00008XX
Matrices02 for No.9616

$$A = \begin{bmatrix} 9 \end{bmatrix}, B = \begin{bmatrix} 14 \end{bmatrix}, C = \begin{bmatrix} -8 & 3 \\ 2 & 8 \end{bmatrix}, D = \begin{bmatrix} 7 & -4 \\ -7 & -8 \end{bmatrix}, E = \begin{bmatrix} -2 & 0 & -3 \\ -4 & 3 & 2 \\ 4 & -2 & -2 \end{bmatrix}, F = \begin{bmatrix} 2 & 3 & -3 \\ 0 & -4 & -3 \\ 4 & -2 & 2 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & x \\ 3 & 4 \end{pmatrix} = 6 \right], No10 = \left[\det \begin{pmatrix} 3 & y & -4 \\ -4 & -2 & 4 \\ 3 & -4 & -2 \end{pmatrix} = -44 \right], No11 = \left[G = \begin{bmatrix} 5 & -3 \\ 5 & 2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} x + y = 5 \\ 2x + 4y = 14 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -2x - 4y = -20 \\ 4x + 2y = 22 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 2x + y = -6 \\ -y + 2z = -12 \\ -x + 3z = -11 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 3x - z = -1 \\ 2y + z = 6 \\ 3x + 3y = 12 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00009XX
Matrices02 for No.10152

$$A = [-18], B = [-19], C = \begin{bmatrix} 5 & 5 \\ 8 & -7 \end{bmatrix}, D = \begin{bmatrix} 5 & -2 \\ 2 & 4 \end{bmatrix}, E = \begin{bmatrix} -3 & 2 & 2 \\ -2 & 0 & 3 \\ 3 & -4 & -2 \end{bmatrix}, F = \begin{bmatrix} 2 & 0 & -3 \\ 4 & 4 & -2 \\ -3 & -2 & 3 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & 4 \\ 2 & 2 \end{pmatrix} = -4 \right], No10 = \left[\det \begin{pmatrix} -3 & -4 & 3 \\ 4 & 4 & -4 \\ y & 2 & -2 \end{pmatrix} = -20 \right], No11 = \left[G = \begin{bmatrix} -2 & -3 \\ 2 & 4 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 2x + 4y = 0 \\ -x + 4y = 24 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} x + 2y = -17 \\ -3x + 4y = 1 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 2y - 3z = -2 \\ 2x + 2y = 2 \\ -x + 3z = 25 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2x - 3y = 5 \\ 2x + z = -12 \\ -y + z = -5 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00010XX
Matrices02 for No.11738

$$A = [-20], B = [-23], C = \begin{bmatrix} -5 & -7 \\ 3 & -2 \end{bmatrix}, D = \begin{bmatrix} -4 & -9 \\ -9 & -8 \end{bmatrix}, E = \begin{bmatrix} 0 & 4 & 3 \\ -2 & 2 & -3 \\ 4 & -2 & -3 \end{bmatrix}, F = \begin{bmatrix} -3 & -4 & 3 \\ 0 & 4 & 3 \\ -3 & -2 & -4 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=3 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 4 & 4 \\ x & 3 \end{pmatrix} = 24 \right], No10 = \left[\det \begin{pmatrix} 2 & 2 & -3 \\ 2 & -4 & -3 \\ y & 3 & 3 \end{pmatrix} = -90 \right], No11 = \left[G = \begin{bmatrix} -2 & 5 \\ -5 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 3x - 3y = 3 \\ 4x - 3y = -2 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x + 5y = 22 \\ 2x + 5y = 1 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -y + 2z = 15 \\ -x + 2y = -12 \\ -x - 2z = -6 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} x - 2y = 8 \\ -3y + 2z = -7 \\ 3x + 3z = -18 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00013XX
Matrices02 for No.11842

$$A = [-12], B = [-8], C = \begin{bmatrix} -4 & 4 \\ 2 & -8 \end{bmatrix}, D = \begin{bmatrix} 7 & -6 \\ 6 & 9 \end{bmatrix}, E = \begin{bmatrix} -2 & -4 & 3 \\ -3 & 3 & 4 \\ -4 & 2 & 0 \end{bmatrix}, F = \begin{bmatrix} -3 & 3 & 4 \\ 0 & 4 & 3 \\ 2 & -2 & -4 \end{bmatrix}, \begin{bmatrix} m = 3 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -3 & x \\ 2 & -3 \end{pmatrix} = 13 \right], No10 = \left[\det \begin{pmatrix} -3 & -2 & -2 \\ 3 & -4 & y \\ -3 & -3 & 2 \end{pmatrix} = 84 \right], No11 = \left[G = \begin{bmatrix} 2 & 5 \\ -5 & -4 \end{bmatrix} \right]$$

$$System1 = \begin{bmatrix} 2x + 3y = 12 \\ 2x - 4y = -2 \end{bmatrix}, \quad , System2 = \begin{bmatrix} -2x + 2y = -4 \\ -3x - 4y = 29 \end{bmatrix}, \quad , System3 = \begin{bmatrix} -x - y = -5 \\ -2y + 2z = 16 \\ -3x + 2z = -9 \end{bmatrix}, \quad , System4 = \begin{bmatrix} 3x + y = 18 \\ -x + z = -3 \\ y - 2z = -11 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00014XX
Matrices02 for No.11901

$$A = \begin{bmatrix} 8 \end{bmatrix}, B = \begin{bmatrix} -14 \end{bmatrix}, C = \begin{bmatrix} 6 & 5 \\ 2 & -6 \end{bmatrix}, D = \begin{bmatrix} 5 & -11 \\ 2 & -2 \end{bmatrix}, E = \begin{bmatrix} 3 & 2 & 3 \\ -4 & 0 & -2 \\ -2 & -2 & 2 \end{bmatrix}, F = \begin{bmatrix} 2 & -4 & -3 \\ 4 & 4 & -2 \\ -3 & 0 & 2 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & x \\ -2 & 3 \end{pmatrix} = 17 \right], No10 = \left[\det \begin{pmatrix} 3 & 3 & 2 \\ -4 & 2 & -2 \\ 4 & y & -2 \end{pmatrix} = -80 \right], No11 = \left[G = \begin{bmatrix} -2 & -4 \\ 3 & -3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 4x + 5y = -18 \\ -x - 3y = 15 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 5x - 2y = 43 \\ 4x + y = 24 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3y + 3z = 12 \\ 2x + y = -10 \\ x + z = 1 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2x + z = 4 \\ -x + y = 2 \\ -2y - 3z = 4 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00015XX
Matrices02 for No.11947

$$A = [-19], B = [18], C = \begin{bmatrix} 5 & -7 \\ 5 & -2 \end{bmatrix}, D = \begin{bmatrix} 4 & 11 \\ -7 & -6 \end{bmatrix}, E = \begin{bmatrix} -2 & 2 & -2 \\ 3 & -3 & 2 \\ 0 & 3 & -4 \end{bmatrix}, F = \begin{bmatrix} 2 & 0 & -4 \\ 2 & 3 & -2 \\ -4 & -3 & 3 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -3 & x \\ -4 & 3 \end{pmatrix} = -25 \right], No10 = \left[\det \begin{pmatrix} -4 & -4 & -2 \\ y & 4 & 2 \\ -4 & -3 & 3 \end{pmatrix} = -108 \right], No11 = \left[G = \begin{bmatrix} -5 & 5 \\ 4 & 3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} x + 5y = -27 \\ -5x + 3y = -5 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 2x + 4y = -34 \\ -4x - 2y = 26 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2y - z = -1 \\ 3x + 3y = 27 \\ x + 2z = 1 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3x + 2z = 16 \\ -y + 3z = 8 \\ -3x - 2y = -8 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00016XX
Matrices02 for No.11989

$$A = [-11], B = [-17], C = \begin{bmatrix} -7 & -2 \\ -8 & -7 \end{bmatrix}, D = \begin{bmatrix} 5 & -9 \\ 4 & -6 \end{bmatrix}, E = \begin{bmatrix} 2 & 3 & 3 \\ 3 & -2 & -4 \\ -4 & -4 & 0 \end{bmatrix}, F = \begin{bmatrix} -4 & 3 & 3 \\ -3 & -4 & 2 \\ -2 & 0 & -3 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 2 & x \\ -4 & 3 \end{pmatrix} = -6 \right], No10 = \left[\det \begin{pmatrix} y & 2 & 2 \\ -3 & -4 & 3 \\ -4 & 3 & -2 \end{pmatrix} = -89 \right], No11 = \left[G = \begin{bmatrix} -3 & 5 \\ 5 & -5 \end{bmatrix} \right]$$

$$System1 = \begin{bmatrix} -4x + 5y = 9 \\ 3x - 5y = -3 \end{bmatrix}, \quad , System2 = \begin{bmatrix} x - y = -1 \\ -5x - y = -19 \end{bmatrix}, \quad , System3 = \begin{bmatrix} -3x - 2z = 15 \\ 2x + 3y = -8 \\ -3y + 2z = 0 \end{bmatrix}, \quad , System4 = \begin{bmatrix} -x + 3z = -31 \\ 2x + 2y = 2 \\ -y + z = -2 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00017XX
Matrices02 for No.11996

$$A = [23], B = [9], C = \begin{bmatrix} 7 & 5 \\ 4 & 4 \end{bmatrix}, D = \begin{bmatrix} 8 & -7 \\ 7 & -3 \end{bmatrix}, E = \begin{bmatrix} -2 & 3 & 3 \\ 4 & -4 & 0 \\ -2 & 2 & 2 \end{bmatrix}, F = \begin{bmatrix} 4 & 0 & -3 \\ 3 & -3 & -4 \\ -3 & 2 & 4 \end{bmatrix}, \begin{bmatrix} m = 3 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & -4 \\ 2 & x \end{pmatrix} = -1 \right], No10 = \left[\det \begin{pmatrix} 3 & -4 & y \\ -2 & 3 & 2 \\ 3 & -4 & -2 \end{pmatrix} = -5 \right], No11 = \left[G = \begin{bmatrix} -2 & 4 \\ -3 & 5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -x - 4y = -26 \\ 3x + 3y = 33 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -5x + 3y = -44 \\ 2x + y = 11 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3x + 2z = 25 \\ 2x - 2y = 8 \\ -y + z = -1 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2x + z = -4 \\ -x + 3y = -6 \\ 3y + 2z = 4 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00018XX
Matrices02 for No.12889

$$A = [-19], B = [22], C = \begin{bmatrix} 2 & 3 \\ 7 & -3 \end{bmatrix}, D = \begin{bmatrix} -2 & -2 \\ -7 & -10 \end{bmatrix}, E = \begin{bmatrix} 0 & 3 & -4 \\ -2 & 2 & 2 \\ -3 & 3 & -3 \end{bmatrix}, F = \begin{bmatrix} -4 & 0 & -3 \\ -2 & 2 & 3 \\ -3 & 3 & -4 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 3 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -2 & -4 \\ x & 4 \end{pmatrix} = -20 \right], No10 = \left[\det \begin{pmatrix} 2 & 3 & y \\ 4 & 2 & -4 \\ 3 & 4 & 4 \end{pmatrix} = -16 \right], No11 = \left[G = \begin{bmatrix} 5 & 2 \\ -4 & 5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -2x - 2y = 2 \\ -4x + 5y = -68 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} x + y = 12 \\ x - 5y = -12 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2x - 2z = 14 \\ x - 2y = 3 \\ y + z = -6 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -y + 3z = 18 \\ -2x + 2z = 6 \\ 2x + 2y = -2 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00019XX
Matrices02 for No.12890

$$A = [-10], B = [-16], C = \begin{bmatrix} -4 & 2 \\ 3 & -8 \end{bmatrix}, D = \begin{bmatrix} -3 & -4 \\ 5 & -2 \end{bmatrix}, E = \begin{bmatrix} 0 & 3 & 4 \\ 3 & -3 & 3 \\ -3 & 2 & 3 \end{bmatrix}, F = \begin{bmatrix} 4 & 3 & -2 \\ -3 & -3 & 0 \\ 2 & -4 & -2 \end{bmatrix}, \begin{bmatrix} m = 2 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -4 & 3 \\ x & -4 \end{pmatrix} = 22 \right], No10 = \left[\det \begin{pmatrix} y & -4 & -3 \\ -3 & -4 & 2 \\ 2 & 3 & 3 \end{pmatrix} = -13 \right], No11 = \left[G = \begin{bmatrix} 5 & -4 \\ -3 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -4x - y = -15 \\ 2x + 4y = 32 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 5x + 3y = -41 \\ 3x + 3y = -27 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3x - 3z = -6 \\ 3x + 3y = -3 \\ -3y - z = 13 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2x + 2y = -4 \\ 3x + z = -17 \\ -y + 2z = -12 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00020XX
Matrices02 for No.12891

$$A = [-11], B = [19], C = \begin{bmatrix} -6 & -8 \\ -3 & 7 \end{bmatrix}, D = \begin{bmatrix} -7 & 3 \\ 7 & 6 \end{bmatrix}, E = \begin{bmatrix} 3 & 3 & 2 \\ -3 & -3 & -3 \\ -4 & 0 & -3 \end{bmatrix}, F = \begin{bmatrix} -4 & 2 & 0 \\ 3 & -2 & 3 \\ -3 & -3 & 2 \end{bmatrix}, \begin{bmatrix} m=4 \\ p=2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 2 & -4 \\ -4 & x \end{pmatrix} = -20 \right], No10 = \left[\det \begin{pmatrix} 3 & y & 2 \\ -2 & -4 & 3 \\ 2 & 4 & 3 \end{pmatrix} = -36 \right], No11 = \left[G = \begin{bmatrix} -4 & -2 \\ 3 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -3x - 5y = 4 \\ -5x + 4y = -55 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} x + 4y = 12 \\ -2x - 2y = -12 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2x + y = -1 \\ -y - z = -9 \\ -x - 3z = -15 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3y + 2z = 2 \\ -x + 2y = -19 \\ x + z = -1 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00021XX
Matrices02 for No.12917

$$A=[\ 8], B=[\ 14], C=\begin{bmatrix} 3 & -7 \\ 7 & 2 \end{bmatrix}, D=\begin{bmatrix} 5 & 7 \\ -9 & 10 \end{bmatrix}, E=\begin{bmatrix} -4 & 0 & -4 \\ 2 & 3 & -3 \\ -3 & -2 & 3 \end{bmatrix}, F=\begin{bmatrix} -3 & -4 & -4 \\ 0 & 3 & 3 \\ -4 & 2 & -4 \end{bmatrix}, \begin{bmatrix} m=4 \\ p=2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & -3 \\ 3 & 4 \end{pmatrix} = 25 \right], No10 = \left[\det \begin{pmatrix} 4 & 2 & -2 \\ 4 & -2 & y \\ 4 & -3 & -2 \end{pmatrix} = 100 \right], No11 = \left[G = \begin{bmatrix} 3 & 3 \\ 5 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -3x - 2y = -4 \\ -3x - 5y = -19 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -4x - 5y = -2 \\ -4x + 5y = -22 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -x + z = 3 \\ y + z = 2 \\ 2x - 3y = 13 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} x + y = -12 \\ -y + 3z = 1 \\ 2x - 2z = -6 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00022XX
Matrices02 for No.13099

$$A = [-7], B = [-11], C = \begin{bmatrix} -3 & -7 \\ 7 & -8 \end{bmatrix}, D = \begin{bmatrix} 11 & -3 \\ -7 & 4 \end{bmatrix}, E = \begin{bmatrix} 2 & 4 & 4 \\ 0 & -2 & -3 \\ 3 & -2 & -2 \end{bmatrix}, F = \begin{bmatrix} -3 & 0 & -3 \\ 3 & 3 & 4 \\ 2 & 4 & -2 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 4 & x \\ -3 & 2 \end{pmatrix} = -1 \right], No10 = \left[\det \begin{pmatrix} 2 & y & -4 \\ 4 & -3 & -3 \\ 2 & -3 & -3 \end{pmatrix} = 12 \right], No11 = \left[G = \begin{bmatrix} -5 & 5 \\ 2 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -2x + y = 0 \\ 2x - 4y = -18 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -5x - 2y = -18 \\ -4x - 2y = -16 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -y - 2z = -4 \\ -2x - 2y = -12 \\ -2x + 2z = -10 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -2x + z = -2 \\ -x + 2y = -19 \\ -y - z = 4 \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300111-00023XX
Matrices02 for No.13100

$$A = [10], B = [16], C = \begin{bmatrix} -5 & -8 \\ 8 & -4 \end{bmatrix}, D = \begin{bmatrix} -12 & 9 \\ -9 & 7 \end{bmatrix}, E = \begin{bmatrix} -3 & -3 & -3 \\ 2 & 3 & 0 \\ 2 & -2 & -4 \end{bmatrix}, F = \begin{bmatrix} 2 & 3 & -2 \\ 0 & -3 & 3 \\ -3 & -2 & -2 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -4 & x \\ 2 & 2 \end{pmatrix} = 0 \right], No10 = \left[\det \begin{pmatrix} -3 & 3 & 2 \\ 2 & y & 4 \\ 4 & -2 & -2 \end{pmatrix} = 22 \right], No11 = \left[G = \begin{bmatrix} 5 & -5 \\ 4 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 4x - 3y = 16 \\ -4x - y = 16 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 5x - 3y = 31 \\ 5x + 5y = 15 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x - z = 18 \\ -x + y = 5 \\ 2y - z = -7 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -2x + 2z = 6 \\ -y - 3z = 10 \\ 3x - 3y = -3 \end{bmatrix}$$

X Math@MUT XX M5/1-6300111-00024XX
Matrices02 for No.13139

$$A = [17], B = [-14], C = \begin{bmatrix} -7 & 4 \\ 2 & 7 \end{bmatrix}, D = \begin{bmatrix} 3 & 10 \\ 10 & -9 \end{bmatrix}, E = \begin{bmatrix} -2 & 2 & 3 \\ -4 & -3 & -2 \\ -4 & -4 & 0 \end{bmatrix}, F = \begin{bmatrix} 4 & -2 & 4 \\ -3 & 4 & 0 \\ -3 & -4 & 2 \end{bmatrix}, \begin{bmatrix} m=4 \\ p=2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 2 & x \\ -2 & 4 \end{pmatrix} = 0 \right], No10 = \left[\det \begin{pmatrix} 2 & -4 & 3 \\ 2 & y & -2 \\ 2 & -3 & -4 \end{pmatrix} = -74 \right], No11 = \left[G = \begin{bmatrix} -5 & 4 \\ 5 & 4 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -x + 3y = 20 \\ 3x - 2y = -32 \end{bmatrix}, \text{System2} = \begin{bmatrix} -4x - y = 8 \\ 2x - y = -16 \end{bmatrix}, \text{System3} = \begin{bmatrix} -2x + 3y = 8 \\ -y + z = 2 \\ -2x + 2z = 6 \end{bmatrix}, \text{System4} = \begin{bmatrix} -2x + 3z = 15 \\ -x - y = -1 \\ 3y + z = 1 \end{bmatrix}$$

[illegible]

$$\vdots$$

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