

$$A=[13], B=[8], C=\begin{bmatrix} 5 & -4 \\ -8 & -2 \end{bmatrix}, D=\begin{bmatrix} 3 & 11 \\ 5 & -7 \end{bmatrix}, E=\begin{bmatrix} 4 & 4 & 2 \\ -4 & 0 & 2 \\ 4 & -4 & -2 \end{bmatrix}, F=\begin{bmatrix} 2 & 4 & 0 \\ -4 & -2 & 4 \\ 2 & -3 & -2 \end{bmatrix}, \begin{bmatrix} m=4 \\ p=3 \end{bmatrix}$$

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

$$\text{System1} = \begin{bmatrix} -2x - 3y = -21 \\ -x + 3y = 3 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x + 3y = -1 \\ 3x - 2y = 17 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} x + 2z = 0 \\ -y - 2z = 10 \\ -2x - 3y = 0 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} x + y = 12 \\ 3y + z = 5 \\ -x - 2z = 6 \end{bmatrix}$$

$$A = [-9], B = [21], C = \begin{bmatrix} 3 & 4 \\ -6 & 4 \end{bmatrix}, D = \begin{bmatrix} -8 & 11 \\ -6 & 2 \end{bmatrix}, E = \begin{bmatrix} -3 & 3 & -4 \\ 2 & 0 & -2 \\ 3 & -3 & 4 \end{bmatrix}, F = \begin{bmatrix} -2 & 2 & 4 \\ 3 & -3 & -2 \\ 3 & 0 & 2 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -4 & 3 \\ x & -2 \end{pmatrix} = -1 \right], No10 = \left[\det \begin{pmatrix} -4 & -4 & -4 \\ 3 & y & -2 \\ 2 & -4 & -3 \end{pmatrix} = -20 \right], No11 = \left[G = \begin{bmatrix} -3 & -3 \\ 4 & 2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -2x + 5y = 31 \\ 4x - y = -17 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x + 3y = -23 \\ -5x - y = -3 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -y + z = 11 \\ -2x - 3z = -11 \\ -2x - y = 14 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} y - z = -13 \\ x - 2y = 4 \\ x + z = -1 \end{bmatrix}$$

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Matrices02 for No.10083

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$$A = [14], B = [22], C = \begin{bmatrix} 2 & -6 \\ -2 & 6 \end{bmatrix}, D = \begin{bmatrix} -4 & -5 \\ 4 & -12 \end{bmatrix}, E = \begin{bmatrix} 0 & -2 & 2 \\ 2 & 2 & 4 \\ 3 & 3 & -4 \end{bmatrix}, F = \begin{bmatrix} 2 & 2 & -3 \\ 0 & -3 & 3 \\ -2 & 4 & 2 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=4 \end{bmatrix}$$

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

$$\text{System1} = \begin{bmatrix} -x - 2y = -4 \\ 3x - 4y = -48 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x - 5y = 2 \\ -3x + y = -26 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2x - 2z = -22 \\ 3x + 3y = -3 \\ -3y - z = 4 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 3x + z = 10 \\ 2y - 3z = 0 \\ -3x - 3y = -24 \end{bmatrix}$$

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Matrices02 for No.10109

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$$A = \begin{bmatrix} 11 \end{bmatrix}, B = \begin{bmatrix} 21 \end{bmatrix}, C = \begin{bmatrix} 7 & -5 \\ -8 & 7 \end{bmatrix}, D = \begin{bmatrix} 6 & 12 \\ -12 & 11 \end{bmatrix}, E = \begin{bmatrix} -3 & -4 & 2 \\ 2 & 4 & 0 \\ 3 & -4 & 4 \end{bmatrix}, F = \begin{bmatrix} -2 & -4 & -4 \\ -4 & -3 & -3 \\ -4 & 0 & 3 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & x \\ -4 & 4 \end{pmatrix} = 28 \right], No10 = \left[\det \begin{pmatrix} 2 & 2 & -4 \\ 2 & y & 4 \\ 2 & -2 & 3 \end{pmatrix} = -6 \right], No11 = \left[G = \begin{bmatrix} 4 & -3 \\ -2 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -x + 5y = -28 \\ -x + y = -4 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -3x + 3y = -18 \\ 4x + 3y = -32 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x + z = 1 \\ 3x + y = -11 \\ 3y - z = 2 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3x + z = 1 \\ 3y + 3z = -3 \\ -3x + y = 10 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 & 1 \end{bmatrix}, C = \begin{bmatrix} 2 & -5 \\ -8 & -7 \end{bmatrix}, D = \begin{bmatrix} 11 & -10 \\ 12 & -10 \end{bmatrix}, E = \begin{bmatrix} -2 & 2 & 0 \\ 4 & -3 & -3 \\ -3 & 2 & 3 \end{bmatrix}, F = \begin{bmatrix} -4 & 3 & -4 \\ 0 & -3 & 4 \\ -2 & 3 & -3 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=4 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 & 1 \end{bmatrix}, C = \begin{bmatrix} 2 & -5 \\ -8 & -7 \end{bmatrix}, D = \begin{bmatrix} 11 & -10 \\ 12 & -10 \end{bmatrix}, E = \begin{bmatrix} -2 & 2 & 0 \\ 4 & -3 & -3 \\ -3 & 2 & 3 \end{bmatrix}, F = \begin{bmatrix} -4 & 3 & -4 \\ 0 & -3 & 4 \\ -2 & 3 & -3 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 4 & 3 \\ x & 2 \end{pmatrix} = 14 \right], No10 = \left[\det \begin{pmatrix} -3 & -4 & -2 \\ -4 & y & 2 \\ -4 & 4 & -4 \end{pmatrix} = 144 \right], No11 = \left[G = \begin{bmatrix} -4 & -4 \\ 3 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 2x + 4y = 6 \\ 3x + y = -16 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -5x + 4y = 2 \\ 5x + 4y = 22 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3x + 2y = 14 \\ -y + 3z = -10 \\ 2x + 2z = 4 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -x - 3z = -22 \\ -3y - z = 4 \\ -3x + 2y = -2 \end{bmatrix}$$

$$A = [-9], B = [-12], C = \begin{bmatrix} 2 & -5 \\ -3 & -3 \end{bmatrix}, D = \begin{bmatrix} -6 & -10 \\ -10 & 11 \end{bmatrix}, E = \begin{bmatrix} 3 & 2 & 2 \\ 4 & 2 & 4 \\ 2 & 3 & 0 \end{bmatrix}, F = \begin{bmatrix} -2 & 0 & 3 \\ -2 & 3 & -2 \\ 3 & -4 & -3 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 4 \end{bmatrix}$$

$$A=[-9], B=[-12], C=\begin{bmatrix} 2 & -5 \\ -3 & -3 \end{bmatrix}, D=\begin{bmatrix} -6 & -10 \\ -10 & 11 \end{bmatrix}, E=\begin{bmatrix} 3 & 2 & 2 \\ 4 & 2 & 4 \\ 2 & 3 & 0 \end{bmatrix}, F=\begin{bmatrix} -2 & 0 & 3 \\ -2 & 3 & -2 \\ 3 & -4 & -3 \end{bmatrix}, \begin{bmatrix} m=1 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & -3 \\ 2 & x \end{pmatrix} = -3 \right], No10 = \left[\det \begin{pmatrix} -2 & -3 & -2 \\ -2 & 2 & -2 \\ -2 & 2 & y \end{pmatrix} = 10 \right], No11 = \left[G = \begin{bmatrix} -5 & -2 \\ -2 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 5x - 2y = 8 \\ x - 5y = -26 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x + 4y = -16 \\ -3x + 4y = 0 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -x - z = -5 \\ -y + 2z = -1 \\ -3x - y = -18 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2x - 3y = -1 \\ -x + z = -9 \\ y + 3z = -12 \end{bmatrix}$$

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Matrices02 for No.10596

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$$A = [16], B = [17], C = \begin{bmatrix} 2 & 6 \\ 4 & 6 \end{bmatrix}, D = \begin{bmatrix} -8 & 7 \\ 3 & 4 \end{bmatrix}, E = \begin{bmatrix} -3 & -4 & 3 \\ 0 & 3 & 4 \\ -4 & 4 & -3 \end{bmatrix}, F = \begin{bmatrix} -2 & -4 & 0 \\ 2 & -3 & -2 \\ -2 & -2 & 4 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & -4 \\ -4 & x \end{pmatrix} = -7 \right], No10 = \left[\det \begin{pmatrix} -2 & 4 & y \\ -3 & 2 & 2 \\ 2 & 3 & -3 \end{pmatrix} = 56 \right], No11 = \left[G = \begin{bmatrix} 3 & -5 \\ -4 & 2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -3x - y = 13 \\ -5x + 2y = 40 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -4x - 2y = 26 \\ -3x - 3y = 27 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3x + 2z = -1 \\ 2y - 2z = -12 \\ 2x - 3y = 0 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2y + z = -10 \\ x - z = -6 \\ 2x - 3y = -4 \end{bmatrix}$$

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Matrices02 for No.10599

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$$A = [-15], B = [-19], C = \begin{bmatrix} 5 & -7 \\ -5 & 5 \end{bmatrix}, D = \begin{bmatrix} -10 & 6 \\ 2 & -7 \end{bmatrix}, E = \begin{bmatrix} -4 & 2 & 4 \\ 3 & 4 & -2 \\ 0 & -3 & -3 \end{bmatrix}, F = \begin{bmatrix} -2 & 4 & -3 \\ -3 & -3 & 4 \\ -4 & 0 & 2 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 2 \end{bmatrix}$$

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

$$\text{System1} = \begin{bmatrix} -5x - y = 19 \\ 2x - y = -16 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 3x - y = -13 \\ -2x - 4y = -10 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} y - z = -4 \\ 2x - z = -2 \\ x + y = -11 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -2x - 2y = -2 \\ -x + 2z = -11 \\ 2y - 3z = -6 \end{bmatrix}$$

$$A = [10], B = [-14], C = \begin{bmatrix} -6 & -8 \\ 2 & -6 \end{bmatrix}, D = \begin{bmatrix} -4 & 4 \\ -12 & 11 \end{bmatrix}, E = \begin{bmatrix} 4 & -4 & -4 \\ 0 & -2 & -4 \\ 2 & 4 & 4 \end{bmatrix}, F = \begin{bmatrix} -2 & 3 & 0 \\ 2 & 2 & -3 \\ 2 & 4 & -2 \end{bmatrix}, \begin{bmatrix} m = 3 \\ p = 2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & 4 \\ 3 & 2 \end{pmatrix} = -4 \right], No10 = \left[\det \begin{pmatrix} -2 & 4 & -2 \\ y & 3 & 4 \\ -2 & 3 & 3 \end{pmatrix} = 34 \right], No11 = \left[G = \begin{bmatrix} -3 & 4 \\ -5 & 3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 2x - y = 14 \\ -2x + 2y = -18 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 3x - 2y = -28 \\ x - y = -12 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x - 2z = -2 \\ 3x - y = 1 \\ y - 3z = -19 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3x - 2y = -6 \\ -2x + z = -13 \\ -2y + z = 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 6 & -7 \\ -8 & 2 \end{bmatrix}, B = \begin{bmatrix} 6 & -7 \\ -8 & 2 \end{bmatrix}, C = \begin{bmatrix} 6 & -7 \\ -8 & 2 \end{bmatrix}, D = \begin{bmatrix} -6 & -10 \\ -6 & -7 \end{bmatrix}, E = \begin{bmatrix} 3 & 0 & -2 \\ -3 & 4 & 4 \\ -4 & 2 & -3 \end{bmatrix}, F = \begin{bmatrix} -3 & 4 & 2 \\ -3 & -2 & -4 \\ -3 & 0 & 4 \end{bmatrix}, \begin{bmatrix} m = 3 \\ p = 2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & x \\ 3 & -3 \end{pmatrix} = -21 \right], No10 = \left[\det \begin{pmatrix} -3 & -4 & y \\ 2 & 4 & -4 \\ 4 & -2 & -4 \end{pmatrix} = 44 \right], No11 = \left[G = \begin{bmatrix} -4 & 5 \\ -3 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 3x + 4y = -22 \\ 5x - 3y = 2 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -2x + 2y = -30 \\ 3x - 2y = 38 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2x + 3y = -4 \\ -y + 2z = -2 \\ -x - 2z = 15 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -y + 3z = -20 \\ 2x - y = -8 \\ 3x - 2z = -2 \end{bmatrix}$$

$$A=[16], B=[15], C=\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}, D=\begin{bmatrix} 2 & 2 \\ -2 & 10 \end{bmatrix}, E=\begin{bmatrix} -3 & 3 & 4 \\ -2 & 0 & -2 \\ -2 & 2 & -3 \end{bmatrix}, F=\begin{bmatrix} -2 & 3 & 2 \\ 2 & 3 & 4 \\ 0 & -3 & -2 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=1 \end{bmatrix}$$

$$\text{System1} = \begin{bmatrix} -5x - 5y = 45 \\ x - 4y = 16 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x - 5y = -13 \\ -x + 3y = 19 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 2x + y = -18 \\ 2x - 2z = 2 \\ -y + 3z = -10 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} x - 2y = 1 \\ 2y + 2z = -2 \\ -3x + 2z = 19 \end{bmatrix}$$

$$A=[-7], B=[-17], C=\begin{bmatrix} 3 & -5 \\ 4 & -4 \end{bmatrix}, D=\begin{bmatrix} 10 & 8 \\ -8 & -9 \end{bmatrix}, E=\begin{bmatrix} -3 & 2 & -4 \\ 3 & -4 & 0 \\ 3 & 2 & -2 \end{bmatrix}, F=\begin{bmatrix} 2 & 3 & 3 \\ 3 & -3 & 0 \\ -4 & -3 & -2 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=2 \end{bmatrix}$$

$$\text{System1} = \begin{bmatrix} 3x - 5y = -28 \\ -x - 5y = -4 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -3x + y = 8 \\ -4x + 5y = -15 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} y + 2z = -10 \\ -x - z = 9 \\ -3x + 2y = 10 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} x + y = -10 \\ -3y + 2z = 17 \\ -x - 3z = 9 \end{bmatrix}$$

$$A = [23], B = [-19], C = \begin{bmatrix} -2 & 7 \\ 7 & -7 \end{bmatrix}, D = \begin{bmatrix} -10 & 12 \\ -3 & 8 \end{bmatrix}, E = \begin{bmatrix} -3 & -4 & 3 \\ 4 & 0 & 3 \\ 3 & 3 & -3 \end{bmatrix}, F = \begin{bmatrix} -4 & 3 & 4 \\ -3 & -4 & 3 \\ 0 & -3 & -3 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 3 \end{bmatrix}$$

$$No09 = \left[\det \left(\begin{bmatrix} -2 & -2 \\ x & 2 \end{bmatrix} \right) = 2 \right], No10 = \left[\det \left(\begin{bmatrix} -4 & -4 & -4 \\ -3 & -4 & 4 \\ -3 & 2 & y \end{bmatrix} \right) = 164 \right], No11 = \left[G = \begin{bmatrix} 2 & -3 \\ -4 & -4 \end{bmatrix} \right]$$

$$System1 = \begin{bmatrix} x - y = -2 \\ 2x - 4y = 8 \end{bmatrix}, \quad , System2 = \begin{bmatrix} 3x - 2y = 21 \\ 4x + y = 17 \end{bmatrix}, \quad , System3 = \begin{bmatrix} -y + z = 15 \\ -3x - 2z = -4 \\ 3x - 3y = 9 \end{bmatrix}, \quad , System4 = \begin{bmatrix} -x - y = 3 \\ x + z = -2 \\ -3y - z = 31 \end{bmatrix}$$
$$A = [-23], B = [8], C = \begin{bmatrix} 6 & -4 \\ 6 & 2 \end{bmatrix}, D = \begin{bmatrix} 12 & 11 \\ 11 & -8 \end{bmatrix}, E = \begin{bmatrix} 0 & 4 & 4 \\ 2 & -3 & 4 \\ -3 & 4 & -3 \end{bmatrix}, F = \begin{bmatrix} 4 & 4 & 0 \\ 4 & 3 & 4 \\ -4 & 2 & 4 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 3 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & -4 \\ -2 & -3 \end{pmatrix} = -17 \right], No10 = \left[\det \begin{pmatrix} 4 & -4 & 2 \\ -4 & -2 & -3 \\ -4 & y & -4 \end{pmatrix} = 20 \right], No11 = \left[G = \begin{bmatrix} 5 & 3 \\ 4 & -4 \end{bmatrix} \right]$$

$$System1 = \begin{bmatrix} 4x + y = -32 \\ -x - 3y = 19 \end{bmatrix}, System2 = \begin{bmatrix} -x - 4y = -11 \\ -2x - 4y = -14 \end{bmatrix}, System3 = \begin{bmatrix} -3y - z = 20 \\ -3x - 2y = -1 \\ -2x - 2z = 10 \end{bmatrix}, System4 = \begin{bmatrix} -x - 3z = 17 \\ 2x - 3y = 14 \\ 3y - 3z = -3 \end{bmatrix}$$
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Matrices02 for No.13031

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$$A = [16], B = [22], C = \begin{bmatrix} -6 & -3 \\ 3 & 8 \end{bmatrix}, D = \begin{bmatrix} -10 & 9 \\ -8 & 8 \end{bmatrix}, E = \begin{bmatrix} -4 & -4 & 3 \\ 3 & 2 & -4 \\ -4 & -3 & 0 \end{bmatrix}, F = \begin{bmatrix} 3 & -3 & -3 \\ 4 & -3 & -2 \\ 4 & 0 & 2 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 4 & x \\ 2 & -3 \end{pmatrix} = -16 \right], No10 = \left[\det \begin{pmatrix} -4 & 3 & y \\ 3 & 2 & 4 \\ -3 & 2 & 3 \end{pmatrix} = -31 \right], No11 = \left[G = \begin{bmatrix} -2 & 5 \\ 3 & -4 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 5x + 5y = 5 \\ -x + 4y = 29 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -4x + 3y = 40 \\ 3x + 4y = -5 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -y - 2z = -14 \\ -x - y = -14 \\ -2x + 3z = -3 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2y - z = -16 \\ 2x + 2z = 18 \\ 3x + 2y = -1 \end{bmatrix}$$

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Matrices02 for No.13093

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$$A = [-10], B = [22], C = \begin{bmatrix} -2 & -4 \\ 3 & 2 \end{bmatrix}, D = \begin{bmatrix} 10 & -12 \\ -5 & -6 \end{bmatrix}, E = \begin{bmatrix} 3 & -2 & 3 \\ 3 & 0 & -3 \\ 2 & -2 & 2 \end{bmatrix}, F = \begin{bmatrix} -4 & 0 & 4 \\ 2 & -2 & 3 \\ 4 & 2 & -4 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 2 & -4 \\ -4 & x \end{pmatrix} = -24 \right], No10 = \left[\det \begin{pmatrix} y & 4 & 3 \\ 2 & -3 & -2 \\ -2 & -2 & -2 \end{pmatrix} = 10 \right], No11 = \left[G = \begin{bmatrix} -5 & 4 \\ -3 & -5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -x + 5y = 36 \\ 2x - 5y = -32 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 3x - 2y = -7 \\ -4x - 4y = -44 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -y - 2z = 2 \\ x + z = -6 \\ 2x + 3y = 14 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 3x + z = 0 \\ -3y - z = -21 \\ -x - 2y = -8 \end{bmatrix}$$

$$A = [14], B = [-9], C = \begin{bmatrix} 8 & 6 \\ -4 & 5 \end{bmatrix}, D = \begin{bmatrix} -11 & 3 \\ 10 & 7 \end{bmatrix}, E = \begin{bmatrix} 0 & 3 & -3 \\ -3 & 2 & -2 \\ -3 & 2 & 2 \end{bmatrix}, F = \begin{bmatrix} 2 & 2 & 4 \\ 4 & -4 & 2 \\ 0 & -2 & 2 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 1 \end{bmatrix}$$

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

$$\text{System1} = \begin{bmatrix} -5x - 3y = -21 \\ -4x + 3y = -6 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -3x - 2y = 16 \\ 3x + y = -20 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2y - 2z = 4 \\ 2x + y = -20 \\ -2x - 3z = 2 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} x - 3z = 13 \\ 2y - z = -7 \\ -x + 2y = -14 \end{bmatrix}$$

$$A = [-19], B = [-18], C = \begin{bmatrix} 3 & 8 \\ 3 & -7 \end{bmatrix}, D = \begin{bmatrix} 6 & -9 \\ -9 & -8 \end{bmatrix}, E = \begin{bmatrix} 4 & -4 & 3 \\ -4 & -2 & -2 \\ 2 & 0 & -2 \end{bmatrix}, F = \begin{bmatrix} 4 & 0 & 2 \\ -4 & 3 & 4 \\ -3 & 4 & 2 \end{bmatrix}, \begin{bmatrix} m=4 \\ p=1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -4 & x \\ -2 & 3 \end{pmatrix} = -8 \right], No10 = \left[\det \begin{pmatrix} -4 & 3 & -3 \\ -4 & 4 & -2 \\ y & -3 & 2 \end{pmatrix} = 4 \right], No11 = \left[G = \begin{bmatrix} 3 & -3 \\ -5 & 3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -3x - 5y = -13 \\ -5x - 2y = 10 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 2x + 2y = 26 \\ -5x + 2y = -30 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x - 3z = 9 \\ -x - 2y = 14 \\ -y - 2z = -2 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 2y + 2z = 6 \\ x - 3y = 5 \\ -2x - 3z = -10 \end{bmatrix}$$

$$A = [-16], B = [-18], C = \begin{bmatrix} -7 & -8 \\ 7 & 6 \end{bmatrix}, D = \begin{bmatrix} -11 & 10 \\ -3 & -5 \end{bmatrix}, E = \begin{bmatrix} -4 & 2 & -3 \\ 4 & 0 & -2 \\ 2 & -3 & -4 \end{bmatrix}, F = \begin{bmatrix} 3 & -3 & 4 \\ -4 & -4 & 2 \\ 0 & 2 & -4 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -4 & -3 \\ x & 2 \end{pmatrix} = -20 \right], No10 = \left[\det \begin{pmatrix} -2 & -4 & 4 \\ 4 & y & 4 \\ 2 & -4 & 2 \end{pmatrix} = -132 \right], No11 = \left[G = \begin{bmatrix} -5 & 4 \\ -5 & -4 \end{bmatrix} \right]$$

$$System1 = \begin{bmatrix} x - y = -1 \\ -x - 2y = -8 \end{bmatrix}, \quad , System2 = \begin{bmatrix} -4x - 3y = -2 \\ 5x - 3y = 43 \end{bmatrix}, \quad , System3 = \begin{bmatrix} y - 2z = -16 \\ -x - 2z = -7 \\ -2x + 2y = 2 \end{bmatrix}, \quad , System4 = \begin{bmatrix} -2y - z = -9 \\ -x - 2z = 16 \\ -x - y = -1 \end{bmatrix}$$

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

$$No09 = \left[\det \begin{pmatrix} x & 2 \\ 2 & 3 \end{pmatrix} = 8 \right], No10 = \left[\det \begin{pmatrix} -4 & 2 & -4 \\ 3 & -4 & y \\ 4 & -3 & -4 \end{pmatrix} = -60 \right], No11 = \left[G = \begin{bmatrix} 3 & 4 \\ -4 & 5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -4x - 5y = 35 \\ -x - 2y = 11 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 4x + 4y = -4 \\ -3x + 2y = -22 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x + 2z = -4 \\ -2x + y = -16 \\ -2y - 2z = -6 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 3x + z = 9 \\ 2x - 3y = 19 \\ y + z = -2 \end{bmatrix}$$

X Math@MUT XX M5/1-6800311-00029XX
Matrices02 for No.13720

$$A = [-16], B = [7], C = \begin{bmatrix} 4 & -3 \\ -8 & -5 \end{bmatrix}, D = \begin{bmatrix} -2 & -4 \\ -7 & 11 \end{bmatrix}, E = \begin{bmatrix} -3 & -2 & 3 \\ 2 & -3 & -3 \\ 0 & -4 & -2 \end{bmatrix}, F = \begin{bmatrix} 2 & 0 & -3 \\ 3 & -3 & 4 \\ -3 & 3 & 2 \end{bmatrix}, \begin{bmatrix} m=3 \\ p=2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & -3 \\ 3 & 2 \end{pmatrix} = 13 \right], No10 = \left[\det \begin{pmatrix} y & 3 & -2 \\ -4 & -3 & 4 \\ 2 & 4 & 3 \end{pmatrix} = 30 \right], No11 = \left[G = \begin{bmatrix} -2 & 2 \\ 5 & -3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 4x - 5y = -32 \\ x + 4y = 13 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -4x - 3y = 17 \\ -5x - 5y = 15 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 2x - 2z = 6 \\ -3y + z = -3 \\ 3x - 2y = 14 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -x - 3y = -1 \\ y + 3z = 9 \\ -3x - 2z = 20 \end{bmatrix}$$

X Math@MUT XX M5/1-6800311-00030XX
Matrices02 for No.14307

$$A = [-19], B = [16], C = \begin{bmatrix} 5 & 7 \\ -2 & -3 \end{bmatrix}, D = \begin{bmatrix} 10 & -4 \\ -4 & 12 \end{bmatrix}, E = \begin{bmatrix} 3 & -3 & 4 \\ -3 & -3 & 0 \\ 3 & -2 & 2 \end{bmatrix}, F = \begin{bmatrix} 2 & -2 & 4 \\ -4 & 4 & -4 \\ 0 & -2 & 3 \end{bmatrix}, \begin{bmatrix} m = 2 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -2 & -2 \\ 3 & x \end{pmatrix} = 12 \right], No10 = \left[\det \begin{pmatrix} -2 & y & 4 \\ 2 & -2 & -4 \\ -4 & 3 & 3 \end{pmatrix} = -60 \right], No11 = \left[G = \begin{bmatrix} 4 & 4 \\ 5 & 4 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -4x + y = -14 \\ -4x + 3y = -10 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -3x + 2y = 12 \\ -x - 2y = 20 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} 3x + 3y = -9 \\ -2y + 3z = -10 \\ -x - z = 4 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -2y + z = 0 \\ -2x + 3y = -19 \\ -x + z = -11 \end{bmatrix}$$

[illegible]

$$A = [-15], B = [-9], C = \begin{bmatrix} -2 & 6 \\ -7 & 3 \end{bmatrix}, D = \begin{bmatrix} 11 & -2 \\ -4 & 2 \end{bmatrix}, E = \begin{bmatrix} -2 & 3 & -4 \\ -2 & 3 & -4 \\ 0 & -3 & 4 \end{bmatrix}, F = \begin{bmatrix} -4 & -4 & -4 \\ 2 & -4 & -2 \\ 0 & 3 & 3 \end{bmatrix}, \begin{bmatrix} m = 2 \\ p = 3 \end{bmatrix}$$

$$No09 = \left[\det \left(\begin{bmatrix} -2 & -2 \\ 2 & x \end{bmatrix} \right) = 8 \right], No10 = \left[\det \left(\begin{bmatrix} 4 & 2 & 3 \\ -2 & 3 & y \\ 2 & 2 & 4 \end{bmatrix} \right) = 26 \right], No11 = \left[G = \begin{bmatrix} 5 & -3 \\ 4 & 3 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 3x + 5y = 30 \\ -5x + 3y = -16 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -x + 4y = 22 \\ -x + 5y = 28 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2y - 3z = 8 \\ -3x + y = 11 \\ 2x + 3z = -6 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -y - z = -1 \\ -3x + z = -17 \\ x - y = 10 \end{bmatrix}$$

$$A = [16], B = [17], C = \begin{bmatrix} -5 & -2 \\ 5 & -4 \end{bmatrix}, D = \begin{bmatrix} 9 & -8 \\ -7 & 6 \end{bmatrix}, E = \begin{bmatrix} -3 & 0 & 4 \\ 4 & -3 & -4 \\ 2 & -2 & -4 \end{bmatrix}, F = \begin{bmatrix} 4 & -4 & 3 \\ -2 & 3 & 4 \\ 0 & 3 & -3 \end{bmatrix}, \begin{bmatrix} m = 3 \\ p = 2 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -2 & -2 \\ x & 4 \end{pmatrix} = -12 \right], No10 = \left[\det \begin{pmatrix} 3 & y & -3 \\ -4 & 4 & 4 \\ 4 & -2 & 4 \end{pmatrix} = 32 \right], No11 = \left[G = \begin{bmatrix} -3 & 4 \\ -2 & -2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -2x + 3y = -10 \\ 5x + 5y = 50 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 4x + 5y = 27 \\ -2x - 3y = -17 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2x - z = 9 \\ -y - 2z = 3 \\ -x + 3y = 23 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 3y + 2z = -21 \\ x + 2z = -2 \\ -2x + y = -13 \end{bmatrix}$$

$$A = [-10], B = [\quad 8], C = \begin{bmatrix} -4 & -8 \\ -6 & -8 \end{bmatrix}, D = \begin{bmatrix} 3 & 6 \\ -4 & -5 \end{bmatrix}, E = \begin{bmatrix} 0 & -3 & -4 \\ 3 & 3 & 2 \\ -4 & -4 & 3 \end{bmatrix}, F = \begin{bmatrix} -4 & 2 & -3 \\ 3 & 4 & -3 \\ 3 & 0 & 3 \end{bmatrix}, \begin{bmatrix} m = 1 \\ p = 3 \end{bmatrix}$$

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

$$\text{System1} = \begin{bmatrix} -3x - 5y = -2 \\ x + 5y = 14 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} -3x - y = -14 \\ x + 3y = 18 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} x + y = 4 \\ -y + z = 2 \\ -3x + 2z = 22 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} 3y + 3z = -6 \\ -3x - 3z = 12 \\ -x - y = 14 \end{bmatrix}$$

$$A = [23], B = [-14], C = \begin{bmatrix} 4 & 6 \\ -5 & -5 \end{bmatrix}, D = \begin{bmatrix} -3 & -3 \\ -5 & 6 \end{bmatrix}, E = \begin{bmatrix} -4 & -4 & 4 \\ 2 & 0 & 3 \\ -4 & -4 & -4 \end{bmatrix}, F = \begin{bmatrix} -2 & 3 & 0 \\ -3 & -4 & -2 \\ -3 & -3 & 2 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -3 & x \\ 2 & -2 \end{pmatrix} = 2 \right], No10 = \left[\det \begin{pmatrix} 3 & 3 & -3 \\ -3 & 3 & -4 \\ y & -3 & -2 \end{pmatrix} = -93 \right], No11 = \left[G = \begin{bmatrix} 2 & 3 \\ 2 & 5 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} -3x - 4y = -16 \\ -x + 4y = 32 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 5x + 4y = 7 \\ 2x - y = 8 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x + 3y = -3 \\ x + z = -1 \\ -y - 2z = 9 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3x - z = 9 \\ x - 2y = -1 \\ 3y - 2z = -18 \end{bmatrix}$$

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Matrices02 for No.14688

$$A = [17], B = [14], C = \begin{bmatrix} -6 & -4 \\ -2 & -5 \end{bmatrix}, D = \begin{bmatrix} -4 & -8 \\ -4 & 6 \end{bmatrix}, E = \begin{bmatrix} 2 & -3 & 0 \\ -4 & -2 & -4 \\ -3 & 4 & 3 \end{bmatrix}, F = \begin{bmatrix} -3 & 3 & 0 \\ 4 & -4 & -2 \\ -4 & -3 & 3 \end{bmatrix}, \begin{bmatrix} m = 4 \\ p = 1 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} -3 & -4 \\ -3 & x \end{pmatrix} = 0 \right], No10 = \left[\det \begin{pmatrix} 3 & -4 & 4 \\ -3 & -2 & -2 \\ y & 2 & 3 \end{pmatrix} = -130 \right], No11 = \left[G = \begin{bmatrix} 2 & -5 \\ -5 & 4 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 4x + 5y = -64 \\ -3x + 2y = 2 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} x - 2y = -4 \\ 4x - 3y = -1 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -3x + 2z = -2 \\ 2x - 2y = 2 \\ -2y - z = 17 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -y - z = 1 \\ -x - 3z = -23 \\ 2x + 3y = -2 \end{bmatrix}$$

X Math@MUT XX M5/1-6800311-00036XX
Matrices02 for No.14703

$$A=[20], B=[-8], C=\begin{bmatrix} -5 & 8 \\ 8 & 4 \end{bmatrix}, D=\begin{bmatrix} -11 & -3 \\ -8 & -9 \end{bmatrix}, E=\begin{bmatrix} -3 & 3 & 2 \\ 2 & 4 & 0 \\ -2 & -3 & 2 \end{bmatrix}, F=\begin{bmatrix} 3 & 0 & -3 \\ -3 & 3 & -2 \\ 4 & -4 & 4 \end{bmatrix}, \begin{bmatrix} m=2 \\ p=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} 3 & 2 \\ x & -2 \end{pmatrix} = -14 \right], No10 = \left[\det \begin{pmatrix} -2 & 2 & 2 \\ 2 & 4 & -2 \\ y & -4 & 4 \end{pmatrix} = -12 \right], No11 = \left[G = \begin{bmatrix} 4 & 2 \\ 2 & 2 \end{bmatrix} \right]$$

$$\text{System1} = \begin{bmatrix} 4x + 5y = -22 \\ -5x - 3y = 8 \end{bmatrix}, \quad \text{System2} = \begin{bmatrix} 5x - 3y = -37 \\ -2x + y = 14 \end{bmatrix}, \quad \text{System3} = \begin{bmatrix} -2y + 3z = 7 \\ -x - 3z = 16 \\ -2x + 3y = -10 \end{bmatrix}, \quad \text{System4} = \begin{bmatrix} -3y + z = 12 \\ -x + z = 1 \\ x - 2y = 6 \end{bmatrix}$$

[illegible]

$$[1 \ 0 \ 0] = [1 \ 0 \ 0] + [6 \ 5] = [-4 \ 4] = \begin{bmatrix} 2 & 3 & 3 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} -3 & -4 & -4 \\ 0 & 0 & 0 \end{bmatrix} [m=4]$$

$$No09 = \left[\det \begin{pmatrix} 3 & 4 \\ 3 & x \end{pmatrix} = 0 \right], No10 = \left[\det \begin{pmatrix} -3 & 4 & -3 \\ 4 & -3 & 4 \\ -4 & -2 & y \end{pmatrix} = -56 \right], No11 = \left[G = \begin{bmatrix} 4 & -4 \\ -3 & -4 \end{bmatrix} \right]$$

$$\begin{bmatrix} -8 & 8 \end{bmatrix} \quad \begin{bmatrix} 4 & -5 \end{bmatrix} \quad \begin{bmatrix} -2 & 2 & -4 \end{bmatrix} \quad \begin{bmatrix} -4 & 0 & 2 \end{bmatrix} \begin{bmatrix} m=4 \end{bmatrix}$$

$$No09 = \left[\det \begin{pmatrix} x & -4 \\ -2 & 2 \end{pmatrix} = -2 \right], No10 = \left[\det \begin{pmatrix} -4 & 3 & -3 \\ -3 & 3 & 4 \\ y & 2 & 4 \end{pmatrix} = 122 \right], No11 = \left[G = \begin{bmatrix} -5 & -3 \\ 5 & 2 \end{bmatrix} \right]$$

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$$[m=3] = \left[\begin{array}{cc} -4 & -2 \end{array} \right] = \left[\begin{array}{cc} -6 & -2 \end{array} \right] = \left[\begin{array}{ccc} 4 & -3 & 3 \end{array} \right] = \left[\begin{array}{ccc} -3 & 3 & -3 \end{array} \right]$$

$$No09 = \left[\det \begin{pmatrix} -4 & -4 \\ x & -4 \end{pmatrix} = 0 \right], No10 = \left[\det \begin{pmatrix} -4 & -2 & -3 \\ 2 & y & 3 \\ 3 & 4 & 3 \end{pmatrix} = 12 \right], No11 = \left[G = \begin{bmatrix} 3 & -2 \\ 3 & -3 \end{bmatrix} \right]$$

$$[4 \quad -4] = [11 \quad 3] = \begin{bmatrix} 2 & 0 & 3 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} -2 & 4 & -3 \\ 0 & 0 & 0 \end{bmatrix} [m=2]$$

$$No09 = \left[\det \begin{pmatrix} -3 & 2 \\ 4 & x \end{pmatrix} = -17 \right], No10 = \left[\det \begin{pmatrix} 2 & 4 & 4 \\ -2 & 4 & y \\ -4 & -4 & -4 \end{pmatrix} = 64 \right], No11 = \left[G = \begin{bmatrix} 3 & 2 \\ -3 & 4 \end{bmatrix} \right]$$

[illegible]

[illegible]