$$A = \begin{bmatrix} 3 & -7 & 2 \\ -3 & 5 & 1 \\ 6 & -4 & 0 \end{bmatrix}$$

$$\begin{vmatrix} 3 - 7 & 2 \\ -3 & 5 & 1 \\ 6 & -4 & 0 \end{vmatrix} \begin{vmatrix} a & b & c \\ d & e & f \\ 9 & h & i \end{vmatrix} = \begin{vmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{vmatrix}$$

$$\begin{vmatrix} 3\alpha - 7d + 29 & 3b + (-7e) + 2h & 3C + (-7f) + 2i \\ -3\alpha + 5d + J9 & -3b + 5e + Jh & -3C + 5f + 1i \\ -3\alpha + (-7d) + (-7e) + ($$

$$3a - 7d + 29 = 1$$
 | $3b - 7e + 2h = 0$ | $3c - 7f + 2i = 0$
 $-3a + 6d + 9 = 0$ | $-3b + 6e + h = 1$ | $-3c + 6f + i = 0$
 $6a - 4d + 0 = 0$ | $6b - 4e + 0 = 0$ | $6c - 4f + 0 = 1$
 $6a = 4d$ | $9 = 3a - 6d$ | $a = 4d$ | $i = 3c - 6f$
 $6b = 4e$ | $e = 6b$ | $f = 6c - 1$ |

$$3a - 7d + 2g = 1$$

$$a = -\frac{4}{6.11} = -\frac{4}{66}$$

$$0 = \frac{2}{33}$$

$$G\alpha = 4d$$

$$Gc = 4\left(-\frac{1}{11}\right)$$

$$G\alpha = -\frac{4}{11}$$

$$3\left(-\frac{2}{33}\right) - 7\left(-\frac{1}{11}\right) + 29 = 1$$

$$\alpha = -\frac{4}{611} = -\frac{4}{66} \left[-\frac{6}{33} + \frac{7}{11} + 29 = 1 \right]$$

$$\frac{-6+21}{33} + 29 = 1$$

$$\frac{18}{33} + 29 = 1$$

$$d = -1$$

$$-31d = 1$$

$$\begin{array}{c|c}
2g = 1 - \frac{5}{11} \\
2g = \frac{6}{11} \cdot \frac{1}{2} = \frac{3}{11}
\end{array}$$

$$3b - 7e + 2h = 0$$

$$3b - 7(\frac{6b}{4}) + 2h = 0$$

$$(-3b + 5e + h) = 1$$

$$h = 1 + 3b - 5e$$

$$h = 1 + 3b - 5(\frac{6b}{4})$$

$$- 7$$

$$3b - \frac{42b}{4} + 2(1 + 3b - \frac{30b}{4}) = 0$$

$$3b - \frac{42b}{4} + 2 + 6b - \frac{30b}{2} = 0$$

$$12b - 42b + 8 + 24b - 60b = 0$$

$$4$$

$$-66b + 8 = 9(0)$$

$$8 = 66b$$

$$b = \frac{8}{66}$$

$$b = \frac{41}{33}$$

$$h = 1 + 3b - \frac{30b}{4}$$

$$= 1 + \frac{3}{4} + \frac{3}{33} - \frac{30}{4} + \frac{4}{33}$$

$$= 1 + \frac{4}{11} - \frac{30}{33}$$

$$= 1 + \frac{4}{11} - \frac{10}{11}$$

$$= \frac{11 + 4 - 10}{11}$$

$$= \frac{5}{11}$$

$$-\frac{3}{11} + 5e + \frac{5}{11} = 1$$

$$5e = 1 + \frac{4}{11} - \frac{5}{11}$$

$$5e = \frac{11 + 4 - 5}{11}$$

$$e = \frac{11 + 4 - 5}{11}$$

$$e = \frac{1}{11} \cdot \frac{1}{5}$$

$$e = \frac{2}{11} \cdot \frac{1}{5}$$

$$3c - 7f + 2i = 0$$

$$-3c + 5f + i = 0$$

$$i = 3c - 5f$$

$$-1$$

$$3c - 7f + 2(3c - 5f) = 0$$

$$f = \frac{6c - 1}{4}$$

$$3c - 7(\frac{6c - 1}{4}) + 2\left[3c - 5\left(\frac{6c - 1}{4}\right)\right] = 0$$

$$3c - 7(\frac{6c - 1}{4}) + 6c - \frac{10(6c - 1)}{4} = 0$$

$$4c - 7(6c - 1) + 24c - 10(6c - 1) = 0$$

$$AC - \frac{1}{6}(c-1) + \frac{2}{4}(c-1)(6c-1) = \frac{4}{9}(0)$$

$$J2C - \frac{4}{2}C + \frac{1}{4} + \frac{2}{4}C - \frac{1}{6}(0) + \frac{1}{9} = 0$$

$$-\frac{3}{3} - \frac{1}{4} = \frac{3}{22}$$

$$A = \begin{bmatrix} 3 - \frac{7}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{3}{22} & \frac{1}{4} & \frac{3}{22} & \frac{1}{4} & \frac{3}{22} & \frac{1}{4} & \frac{3}{22} & \frac{1}{4} & \frac{3}{4} & \frac{1}{4} & \frac{3}{4} &$$

$$i = 3C - 5f$$

$$= 3\left(\frac{14}{66}\right) - 5\left(\frac{3}{22}\right)$$

$$= \frac{17}{22} - \frac{15}{22}$$

$$= \frac{17 - 15}{22} = \frac{2}{22}$$

$$i = \frac{1}{11}$$

$$A = \begin{bmatrix} -3/3 & 4/33 & 17/66 \\ -1/4 & 2/41 & 3/22 \\ -3/41 & 5/1 & 1/41 \end{bmatrix}$$

$$\begin{vmatrix} 3 - 1 & 2 \\ 3 & 5 & 1 \end{vmatrix} \cdot \begin{vmatrix} -\frac{2}{3}3 & \frac{4}{33} & \frac{1}{166} \\ -\frac{4}{10} & \frac{2}{11} & \frac{2}{3} & \frac{1}{22} \\ -\frac{2}{3} & \frac{1}{3} & \frac{1}{16} & \frac{1}{16} \end{vmatrix} = \begin{vmatrix} 1 & 0 & 1 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{vmatrix}$$