





$$\begin{array}{l|llll}
 R_1 + 3R_3 & 1 & 0 & 0 & \frac{88}{29} & \frac{205}{29} \\
 R_2 + 13R_3 & 0 & 1 & 0 & \frac{43}{29} & \frac{86}{29} \\
 & 0 & 0 & 1 & -\frac{19}{29} & -\frac{9}{29} \\
 R_4 - 27R_3 & 0 & 0 & 0 & -\frac{67}{29} & -\frac{134}{29}
 \end{array}
 \begin{array}{l}
 5 - \frac{57}{29} = \frac{88}{29} \quad 8 + \left(-\frac{27}{29}\right) = -\frac{205}{29} \\
 \frac{290}{29} - \frac{247}{29} = \frac{43}{29} \quad 7 - \frac{117}{29} \\
 -20 - 27\left(-\frac{19}{29}\right) = -\frac{580}{29} + \frac{513}{29} = -\frac{67}{29} \quad -13 + \frac{243}{29}
 \end{array}$$

$$\begin{array}{l|llll}
 -\frac{29}{67}R_4 & 1 & 0 & 0 & \frac{88}{29} & \frac{205}{29} \\
 & 0 & 1 & 0 & \frac{43}{29} & \frac{86}{29} \\
 & 0 & 0 & 1 & -\frac{19}{29} & -\frac{9}{29} \\
 & 0 & 0 & 0 & 1 & 2
 \end{array}
 \begin{array}{l|llll}
 R_1 - \frac{88}{29}R_4 & 1 & 0 & 0 & \frac{88}{29} & \frac{205}{29} \\
 R_2 - \frac{43}{29}R_4 & 0 & 1 & 0 & \frac{43}{29} & \frac{86}{29} \\
 R_3 + \frac{19}{29}R_4 & 0 & 0 & 1 & -\frac{19}{29} & -\frac{9}{29} \\
 & 0 & 0 & 0 & 1 & 2
 \end{array}$$

$$I_4 = 2$$

$$I_3 - \frac{19}{29}I_4 = -\frac{9}{29}$$

$$I_3 - \frac{38}{29} = -\frac{9}{29}$$

$$I_3 = 1$$

$$I_2 + \frac{43}{29}I_4 = \frac{86}{29}$$

$$I_2 + \frac{86}{29} = \frac{86}{29}$$

$$I_2 = 0$$

$$I_1 + \frac{88}{29}I_4 = \frac{205}{29}$$

$$I_1 + \frac{176}{29} = \frac{205}{29}$$

$$I_1 = \frac{29}{29} = 1$$

$$I_1 = 1$$

$$I_2 = 0$$

$$I_3 = 1$$

$$I_4 = 2$$



