$$R3 = R3/6$$

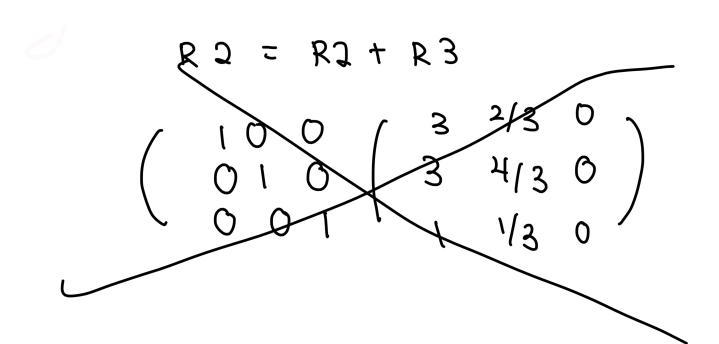
$$R2 = 2(R1) + R2$$

$$\begin{pmatrix} 1 & 0 & -2 & | & 1 & 0 & 0 \\ 0 & 0 & 1 & | & 0 & 1/3 & 0 \end{pmatrix}$$

$$R1 = 2(R3) + R1$$

$$\begin{pmatrix} 0 & 0 & | & 3 & 1/3 & 0 \\ 0 & 1 & -1 & | & 2 & 1/0 \\ 0 & 0 & | & & 1/13 & 0 \end{pmatrix}$$

$$R1 = 2(R3) + R1$$



$$\begin{pmatrix}
1 & 0 & -2 & | & 1 & 0 & 0 \\
-2 & 1 & 3 & | & 0 & 1 & 0 \\
-1 & -1 & 0 & | & 0 & 0 & 1
\end{pmatrix}$$

R3 = R2 - 2(R3)

$$2(R3) = -2 - 2 0 | 00 2$$

$$\begin{pmatrix}
1 & 0 & -2 & | & 1 & 0 & 0 \\
-2 & 1 & 3 & | & 0 & 1 & 0 \\
0 & 3 & 3 & | & 0 & 1 & -2
\end{pmatrix}$$

$$R2 = 2(R1) + R2$$

$$\begin{pmatrix}
1 & 0 & -2 & | & 1 & 0 & 0 \\
0 & 1 & -1 & | & 2 & 1 & 0 \\
0 & 1 & | & 0 & | & | & | & | & | & |
\end{pmatrix}$$

$$RI = 2(R3) + RI$$

$$\begin{pmatrix}
1 & 2 & 0 & | & 1 & 2/3 & -4/3 \\
0 & 1 & -1 & | & 2 & 1 & 0 \\
0 & 1 & 1 & | & 0 & 1/3 & -2/3
\end{pmatrix}$$

$$R3 = R3 - R2$$

$$\begin{pmatrix}
0 & 0 & 2 & -2 & -\frac{2}{3} & -\frac{1}{3} \\
0 & 0 & 2 & -2 & -\frac{2}{3} & -\frac{2}{3}
\end{pmatrix}$$

$$\begin{pmatrix}
0 & 1 & -1 & 3 & 13 \\
0 & 0 & 1 & -1 & 3 & 13
\end{pmatrix}$$

R2 = R2 + R3

$$\begin{pmatrix}
1 & 2 & 0 & 1 & 213 & 113 \\
0 & 1 & 0 & 1 & 213 & -113 \\
0 & 0 & 1 & -1 & -113 & -113
\end{pmatrix}$$

R1= R1-21R2)