Matrices Latex Cheatsheet

$$2x + y + 3z = 10$$

 $x + y + z = 6$
 $x + 3y + 2z = 13$

$$B = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}$$

$$\begin{bmatrix} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \end{bmatrix}$$

$$\begin{bmatrix}
1 & 2 & 3 & 1 & 0 & 0 \\
1 & 2 & 3 & 0 & 1 & 0 \\
1 & 2 & 3 & 0 & 0 & 1
\end{bmatrix}$$

$$\begin{bmatrix} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{bmatrix} \xrightarrow{r_1 + r_2} \begin{bmatrix} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{bmatrix} \xrightarrow{r_1 + r_2} \xrightarrow{r_1 - 4r_2} \xrightarrow{r_1 - 4r_2}$$

$$A_{m,n} = egin{pmatrix} a_{1,1} & a_{1,2} & \cdots & a_{1,n} \ a_{2,1} & a_{2,2} & \cdots & a_{2,n} \ dots & dots & \ddots & dots \ a_{m,1} & a_{m,2} & \cdots & a_{m,n} \end{pmatrix}$$

$$egin{array}{ccccc} a_{11} & a_{12} & a_{13} \ a_{21} & a_{22} & a_{23} \ a_{31} & a_{32} & a_{33} \ \end{array}$$