

$$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$$

[0
1]

$$\begin{bmatrix} \sqrt{1/2} \\ \sqrt{1/2} \end{bmatrix}$$

$$\begin{bmatrix} 1/3 \\ \sqrt{8/3} \end{bmatrix}$$

$$\begin{bmatrix} (2-i)/3 \\ 2i/3 \end{bmatrix}$$





$$\sqrt{12} - \sqrt{12} + \sqrt{12} - \sqrt{12}$$

$$\frac{1}{3} \left(\frac{1}{10} + \sqrt{8} \right) \frac{1}{1}$$

$$(2 - 2/3) / 0 + 2/3 / 1$$