

$$\begin{array}{c} | & & | \\ | & - & | \\ | & & | \end{array} \quad \begin{array}{c} \text{---} \\ \text{---} \end{array} \quad \begin{array}{c} | \\ | \end{array}$$

$\frac{1}{\sqrt{2}} \left(\begin{array}{c} |1\rangle \\ |2\rangle \end{array} \right) = \frac{1}{\sqrt{2}} \left(\begin{array}{c} |1\rangle \\ |2\rangle \end{array} \right)$