



作成者：吾妻広夫

解答

1.

$$|\psi\rangle = |0\rangle \quad (1)$$

2.

$$|\psi\rangle = |1\rangle \quad (2)$$

3.

$$|\psi\rangle = |0\rangle \quad (3)$$

4.

$$|\psi\rangle = -|1\rangle \quad (4)$$

5.

$$|\psi\rangle = \frac{1}{\sqrt{2}}|0\rangle + \frac{i}{\sqrt{2}}|1\rangle \quad (5)$$

6.

$$|\psi\rangle = \frac{1}{\sqrt{2}}|0\rangle - \frac{i}{\sqrt{2}}|1\rangle \quad (6)$$