

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$1 = \sqrt{1} = \sqrt{(-1)(-1)} = \sqrt{-1}\sqrt{-1} = (i)(i) = i^2 = -1!!!$$

$$1 = -1 \quad !!!$$



$$\sqrt{-1} = \sqrt{-1}$$

$$\sqrt{\frac{-1}{1}} = \sqrt{\frac{1}{-1}}$$

$$\frac{\sqrt{-1}}{\sqrt{1}} = \frac{\sqrt{1}}{\sqrt{-1}}$$

$$(\sqrt{-1})(\sqrt{-1}) = (\sqrt{1})(\sqrt{1})$$

$$-1 = 1$$