

Puzzles in Mathematics ($i^2 = -1$)

$$\begin{aligned} i &= \sqrt{-1} \\ &= \sqrt{\frac{-1}{1}} \\ &= \sqrt{\frac{1}{-1}} \\ &= \frac{1}{i} \end{aligned}$$

$$\Rightarrow i^2 = 1 \Leftarrow$$

那安ㄟ?

$$\begin{aligned} i &= \sqrt{-1} \\ &= \sqrt{(-1)(-1)(-1)} \\ &= \sqrt{-1}\sqrt{-1}\sqrt{-1} \\ &= i^3 \end{aligned}$$