1. True or False?

$$\left(\frac{1+\sqrt{3}i}{2}\right)^3 = -1.$$

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2. True or False?

Suppose $z \in \mathbf{C}$ is such that $\operatorname{Re}(z^n) \ge 0$ for every positive integer *n*. Then *z* is a nonnegative real number.

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- 3. True or False?
- i has two distinct square roots in **C**.