Let $\ensuremath{\mathbb{A}}$ represent the algebraic numbers

- 1. Show $\frac{3}{2} \in \mathbb{A}$
- 2. Show $\mathbb{Q} \subset \mathbb{A}$
- 3. Show $\sqrt{5} \in \mathbb{A}$
- 4. Show $\frac{1+\sqrt{5}}{2} \in \mathbb{A}$
- 5. Give a real $r \notin \mathbb{A}$. How do you know this?