

**Day 34: The Ring  $\mathbb{R}[x]/\langle x^2 + 1 \rangle$**

1. Whiteboard pages 1 and 2.

- **Page 1:** The generalization was proved last time.

2. **Work on Day 34 Class Work. Leave 5 minutes for discussions.**

3. Whiteboard page 3.

- This isomorphism is specific to  $g(x) = x^2 + 1$  in  $\mathbb{R}[x]$ .