

1. You can tell whether any polynomial is reducible by checking if it has roots.

- (A) True
- (B) False

2. The evaluation at $u=0$

- (A) is a homomorphism from $\mathbb{Q}[x]$ to \mathbb{Z}
- (B) takes any polynomial to its constant term a_0
- (C) is injective

3. What are the standard representatives of the cosets of $\langle x^2+10 \rangle$?

- (A) constants
- (B) linear polynomials
- (C) quadratic polynomials
- (D) arbitrary polynomials