

Alg Oct 31 - polynomial rings

Score:	

- 1. If F is a field, then F[x] is a ring of polynomials.
- (A) True
- B False
- 2. If a polynomial f(x) of degree 17 is divided by a polynomial g(x) of degree 5, what can you say about the remainder, r(x)?
- (A) It may not exist if the coefficients of f are not divisible by the coefficients of g.
- (B) It has degree 12.
- (c) It might have degree 3.
- D It must have degree 5.
- 3. Which of the following is a monic polynomial over Z_5?
- $(A) 3x^2+1$
- B x^7+4x^6
- C 5x^2+5x+2