

KyotoUx: 004x Fun with Prime Numbers: The Mysterious World of Mathem...

R	Week 4 > ABC Conjecture and Beyond > Problem (6-8)
Bookmarks	■ Bookmarl
► Introduction	Problem 6 (1/1 point)
▶ Week 1	It is well-known that sometimes number theoretic problems have polynomial analogues. What is the polynomial analogue of prime numbers?
▶ Week 2	Primitive polynomials
▶ Week 3	Constant polynomials
▼ Week 4	Quadratic polynomials
Review of Week 3	
ABC Conjecture and Beyond Week 4 Problems due	● Irreducible polynomials ✔
Feb 17, 2016 at 23:30 UTC	Irrelevant polynomials
Homework 4 Homework 4 due Feb 17, 2016 at 23:30 UTC	You have used 1 of 2 submissions
Farewell Message Ending Survey	
Completion	Problem 7 (1/1 point)
Checklist 4 Completion Checklist 4 due Feb 17, 2016 at	What is the polynomial analogue of the absolute value of an integer?
Papan Gateway: Kyoto University Top Global Program	The degree of a polynomial ✓
	The number of multiple roots of a polynomial
	The number of complex roots of a polynomial
	The irreducible factor of largest degree
	The division algorithm of polynomials
	You have used 1 of 2 submissions
	Problem 8

Problem 6 | ABC Conjecture and Beyond | 004x Courseware | edX (2/2 points) Consider the following polynomials with complex coefficients $f(x) = 2x^4 + x^3 + 1$, $g(x) = x^2 + 1$. Divide f(x) by g(x). What are the quotient and the remainder? $f(x) = (Ax^2 + Bx - 2) g(x) + (-x+C)$ Fill an integer in each of the blanks. В C Α 2 1 3 Answer: 2 Answer: 3 Answer: 1 2 3 1

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