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## Introduction To Mathematical Thinking Algebra And Number Systems

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The eight-week-long Basic Course is designed for people who want to develop or improve mathematics-based, analytic thinking for professional or general life purposes. The ten-week-long Extended Course is aimed primarily at first-year students at college or university who are thinking of majoring in mathematics or a mathematically-dependent subject, or high school seniors who have such a college career in mind.

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Introduction to Mathematical Thinking: Algebra and Number ...

Mathematical thinking is not the same as doing mathematics - at least not as mathematics is typically presented in our school system. School math typically focuses on learning procedures to solve highly stereotyped problems. Professional mathematicians think a certain way to solve real problems, problems that can arise from the everyday world, or from science, or from within mathematics itself.

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- Mathematical thinking is an important goal of schooling. •
- Mathematical thinking is important as a way of learning mathematics. •
- Mathematical thinking is important for teaching mathematics.

Mathematical thinking is a highly complex activity, and a great deal has been written and studied about it.

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WHAT IS MATHEMATICAL THINKING AND WHY IS IT IMPORTANT?

Besides giving readers the techniques for solving polynomial equations and congruences, An Introduction to Mathematical Thinking provides preparation for understanding more advanced topics in Linear and Modern Algebra, as well as Calculus.

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Solutions prepared by William J. Gilbert and Alejandro Morales  
Exercise 3-1: Which of the following integers are congruent modulo 4?  
?12 ...

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