

Prealgebra Part 2, Spring 2026

(Part 1 was offered in Fall 2025)

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WHEN, WHERE AND HOW MUCH?

Term: [Jan 18, 2026 – June 4, 2026](#)

In-Person (at PolyEducation) and Virtual (live zoom) Lecture (Teaching by Prof. Xu, helping by a TA for Q&A): [6:30pm-8:00pm \(CT\), Sun](#)

Live zoom Homework Solving: [7:00pm-8:00pm \(CT\), Thu](#)

In-Person Address: PolyEducation, 4116 W Spring Creek Parkway, Suite C500, Plano, TX 75024

Format:

- 20 1.5-hour in-person or live zoom lectures + 20 1-hour live zoom homework solving
- 18 homework assignments (to be graded) + 2 take-home exams (to be graded)

Note: A student can [request the video](#) of a class if the class has to be missed.

Tuition: [\\$930](#) (register by [Nov 23, 2025](#)), [\\$960](#) (register after [Nov 23, 2025](#))

WHO TEACHES?

Dr. Sheng Xu: Associate professor of math at Southern Methodist University

- Received Ph.D. from Cornell and did post-doc at Princeton and Cornell;
- Taught 12 different undergraduate and graduate math courses at SMU in past 19 years;
- Received Betty McKnight Speairs Endowed Teaching Excellence Award
- Recommended by K12 students and parents in anonymous testimonials on <https://xumath.org/testimonial/>
- Published an undergraduate textbook *Introduction to Scientific Computing with Matlab and Python Tutorials*, Taylor Francis, 2022

COURSE INFO

Syllabus, Sample Notes and Videos: <https://xumath.org>

Required Textbooks:

- [1] Customized notes by Prof. Xu with reference to various books (available before each class)
- [2] R. Rusczyk, D. Patrick and R. Boppana, [The art of Problem Solving \(AoPS\) Prealgebra](#)

References:

- [3] Ron Larson et al., [Pre-algebra](#), McDougal Littell

TOPICS

- Integers; Powers with integer exponents
- Basics of number theory: Divisibility, Prime factorization, LCM and gcd
- Fractions; Rational numbers
- Decimal numbers; Scientific notation
- Variables; Expressions; Equations; Inequalities
- Ratios; Proportions; Percents; Rates
- Square Roots; Irrational numbers; Real numbers
- Counting; Probability
- Data; Statistics
- Basics of Euclidean geometry: Common shapes; Perimeter; Area
- Basics of analytical geometry: Cartesian coordinates; Graphs of equations