Prealgebra Part 2, Spring 2027

(Part 1 was offered in Fall 2026)



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TO REGISTER: **https://xumath.org**

WHEN, WHERE AND HOW?

Term: Jan 10, 2027 – May 9, 2027
In-Person & Llive zoom Lecture: 6:30pm-8:00pm (CT), Sun
TA Office Hours: 8-10pm CT, Wed & Sun
Homework Solving Videos: Thu (posted after homework due time)
In-Person Addr: PolyEducation, 4116 W Spring Creek Pkwy, Suite C500, Plano, TX 75024
Format:

- 18 1.5-hour in-person or live zoom lectures + 18 1-hour homework solving videos + 2 review videos for exams
- 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: **$600** (register by Nov 22, 2026), **$630** (register after Nov 22, 2026), 5% PolyEducation multi-course tuition discount (details in registration form)

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 20 years;
- Received Betty McKnight Spears 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

- Arithmetic and powers
- Basics of number theory
- Fractions and mixed numbers
- Decimal numbers
- Variables and expressions
- Solving equations
- Solving inequalities
- Ratios and proportions
- Percents
- Rates
- Square Roots
- Counting and probability
- Data and statistics
- Problem solving strategies