Class Schedule

The reading and homework assignments are numbered according to the 3rd Edition of the textbook "PreCalculus" by Stitz and Zeager.

Week	Topics and Tasks
1	Topic: *find complex roots of a polynomial* Reading: • Quadratic formula (pages 194-195) • Complex numbers (pages 287-288) • Example 3.4.2 **HW1**: 5, 25, 30, 38, 49 on pages 295-296
2	Topic: *rational functions - simplification, domain, vertical and horizontal asymptotes* Reading: Section 4.1, skipping slant asymptotes and word problems. Don't worry about plotting on calculator. You can use GeoGebra.org, a simple and powerful online tool. **HW2**: 2, 5, 9, 11, 15 on pages 314-315
3	Topic: *rational functions - graphs, slant and polynomial asymptotes* Reading: Section 4.2 **HW3**: 2, 4, 12, 16 on page 333 and the additional problem on Canvas
4	Topic: *solving inequalities involving rational functions* Reading: Section 4.3 **HW4**: 3, 6, 7, 12, 20 on page 353
5	Topic: *function composition* Reading: Section 5.1 **HW5**: 3, 4, 17, 24, 54 on pages 369-371
6	Topic: *function inverse* Reading: Section 5.2, skipping Example 5.2.4 **HW6**: 5, 11, 16, 27 on page 394-395
7	Topic: *fractional power functions* Reading: Section 5.3, skipping Example 5.3.3 **HW7**: 5, 8, 9, 11, 43 on pages 407-409
8	Topic: *introduction to exponential and logarithm* Reading: Section 6.1 **HW8**: 5, 32, 37, 50, 71, 72 on pages 429-430
9	Topic: *properties of logarithm* Reading: Section 6.2 **HW9**: 8, 9, 10, 11, 21, 25, 31, 37 on pages 445-446
10	Topic: *equations and inequalities involving the exponential and logarithm function* Reading: Sections 6.3, 6.4 **HW10**: • 13, 17, 32, 38 on page 456 • 14, 21, 24, 26 on page 466