

PC 12 Session 23

Monday, April 11, 2022 7:43 AM

The page contains a series of horizontal blue lines for writing, spaced evenly down the page. A vertical red line is positioned on the left side, creating a margin. The lines are intended for taking notes during the session.

Pre-Calculus 12 Session 23
Tuesday, April 12, 2022

1. Last Day's Homework:

- Textbook Practice: Section 6.4: pages 320-321, Practise 1b), c), 2b), c), 3a), b), c), 4, 5, 6, 10, 14, 17. The Chapter 6 Review on pages 322 to 323. The Chapter 6 Practice Test on page 324. Section 7.1: pages 342-344, Practise 1 to 8 inclusive, 11, and C1. Section 7.2: pages 354 to 356, Practise 1, 2, 3a), d), e), g), 4, 5, 6c), d), 7a), c), 10, 11, 12.
- Readings: Section 8.4 (pages 404 to 412), Section 9.1 (pages 430 to 441), Section **9.2** (not 9.3 as last day's outline stated) (pages 446 to 451).
- Hand-in Assignments and other things: The Chapter 7 Hand-in Assignment will be due on Thursday, April 14. **The Chapter 6 Test will be on THURSDAY, APRIL 14.**

2. A Few Comments about the Chapter 6 Hand-in Assignment

3. More about Section 7.3: Solving Exponential Equations

4. Section 8.1: Understanding Logarithms

5. Section 8.2: Transformations of Logarithmic Functions

6. Section 8.3: Laws of Logarithms

7. Section 8.4: Logarithmic and Exponential Equations

Homework: This depends on how far we get today.

Readings: Section 9.3 (pages 457 to 465).

Practice from the Textbook to try:

Section 7.3: pages 364-365, Practise 1, 2, 3a), c), 4, 5a), c), 7a), c), e), g), 9, 10, 11, 12.

The Chapter 7 Review on pages 366 and 367.

The Chapter 7 Practice Test on pages 368 and 369.

Section 8.1: pages 380-381, Practise 1, 2, 3, 4, 6, 8, 9, 11, 12, 13, 14, 19.

Section 8.2: pages 389-391, Practise 1 to 10 inclusive, 13 and 16.

Section 8.3: pages 400-402, Practise 1a), c), 2a), c), 3a), c), 7a), c), e), 8a), c), 9a), c), 10, 11a), c), 13, 14, 16, 20b), d).

Section 8.4: pages 412-414, Practise 1, 2, 3, 4a), c), 5, 6, 7a), c), 8a), c), e), 9, 13, 16.

- **Hand-in Assignments:** The Chapter 7 Hand-in Assignment will be due on Thursday, April 14.

The Chapter 6 Test will be on Thursday, April 14.

The Chapter 7 Test will possibly on Thursday, April 21, but more likely on Tuesday, April 26, because there is no class on Tuesday, April 19.

7.3

End of last day: Solving Exponential Equations (Part 1)

→ when possible, change the base of both sides to the same base.

$$\left(\frac{1}{3}\right)^x = (3)^{2x+5} \quad \frac{1}{3} = 3^{-1}$$

$$(3^{-1})^x = (3)^{2x+5}$$

$$3^{-x} = (3)^{2x+5}$$

$$-x = 2x+5$$

$$-2x \quad -2x$$

$$\frac{-3x}{-3} = \frac{5}{-3}$$

$$x = \frac{5}{3}$$