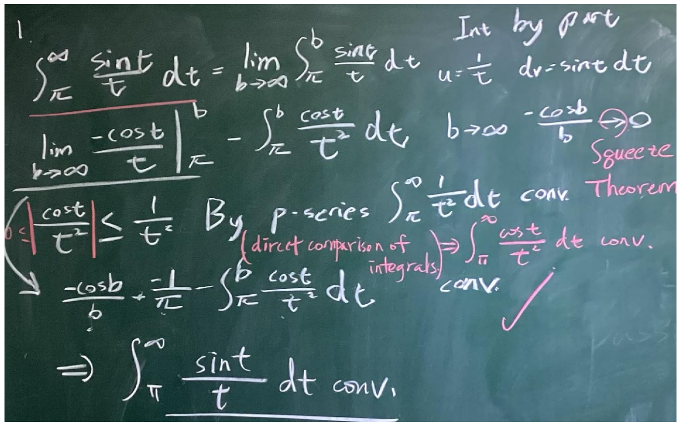
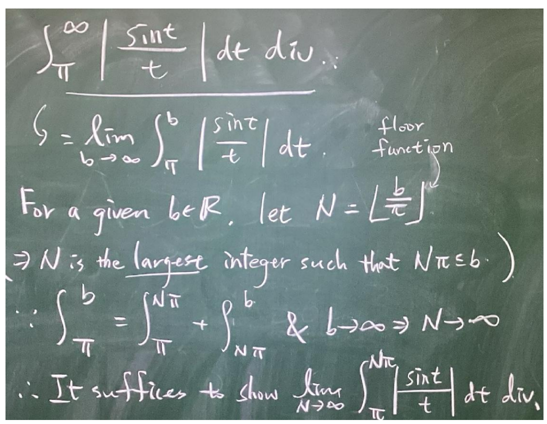
Brief solutions to selected problems in homework 04

1. Section 10.6: Homework 04, problem 01:





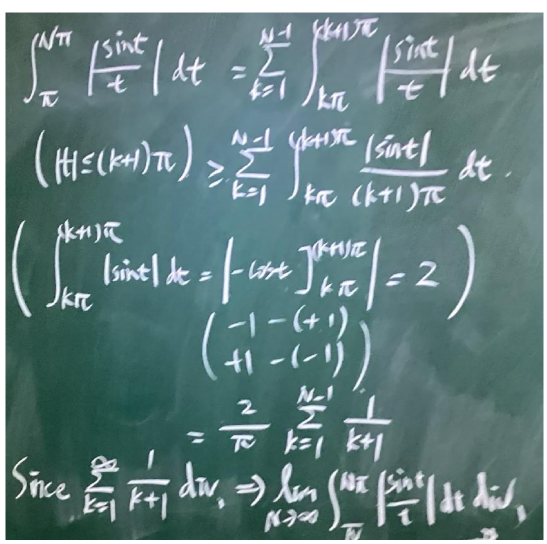


Figure 1: Solution to Homework 04, problem 1

2. Section 10.7: Solutions, common mistakes and corrections:

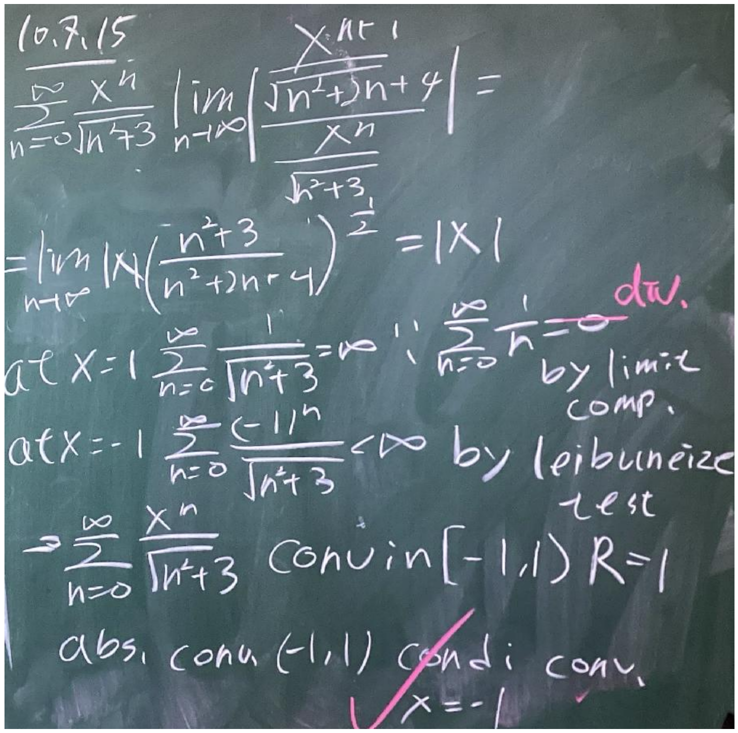


Figure 2: Solution to Section 10.7, problem 15

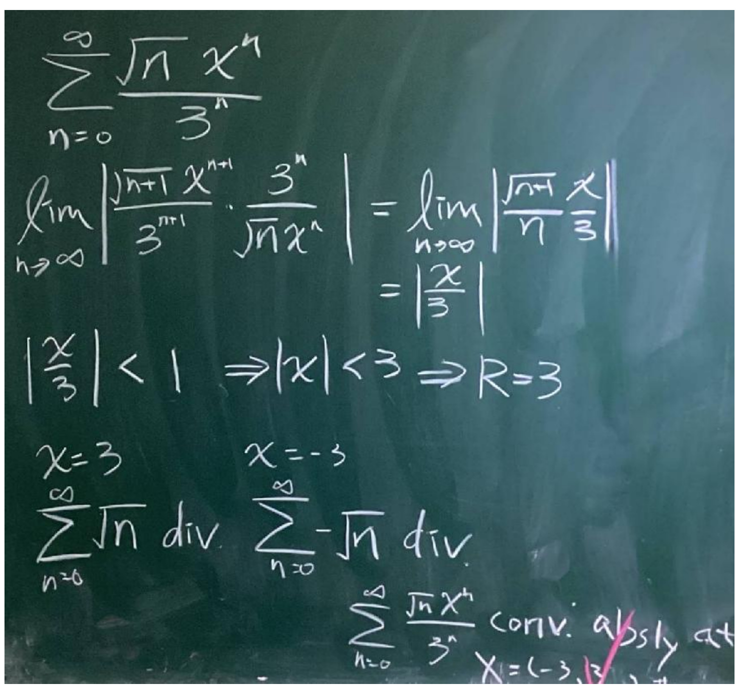


Figure 3: Solution to Section 10.7, problem 19

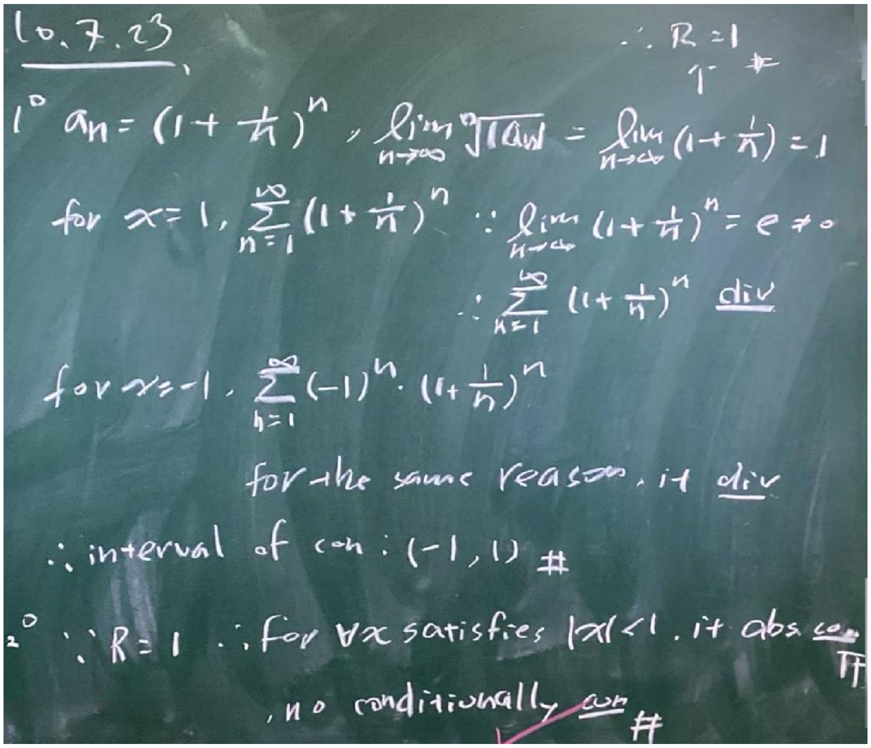


Figure 4: Solution to Section 10.7, problem 23

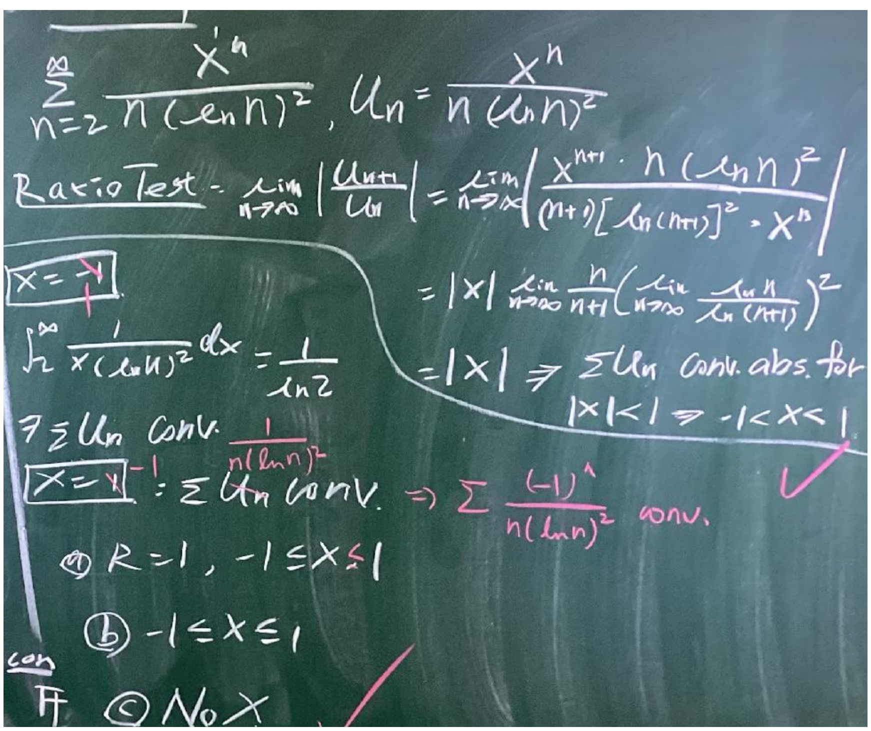


Figure 5: Solution to Section 10.7, problem 29

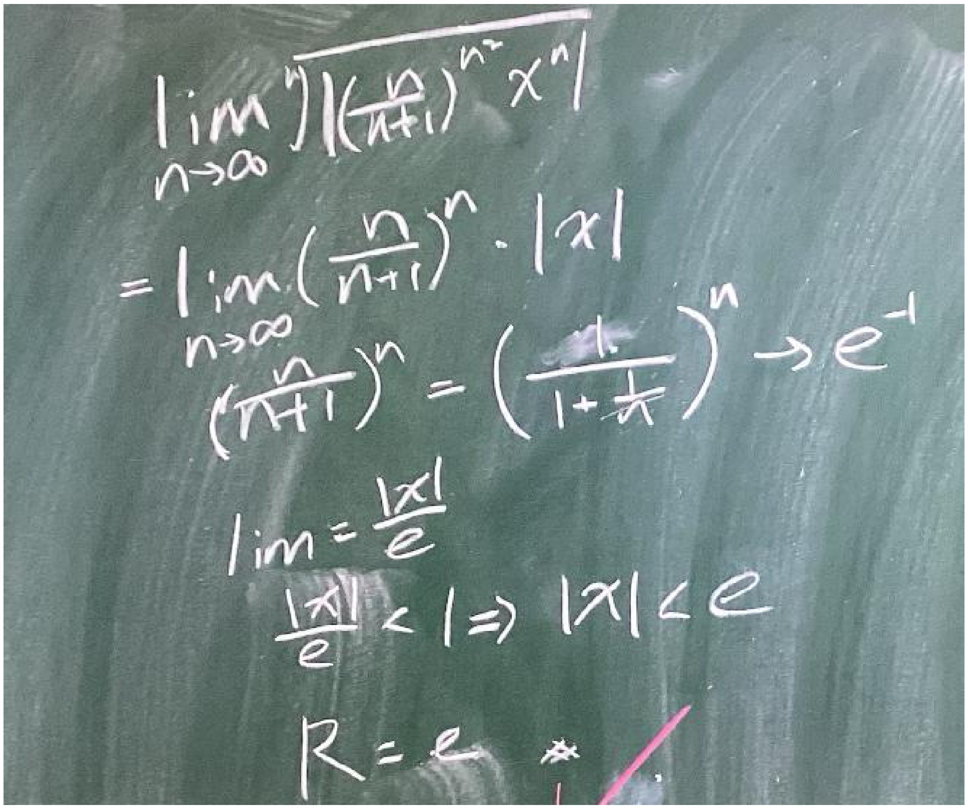


Figure 6: Solution to Section 10.7, problem 40

3. Section 10.7: Homework 05, problem 03:

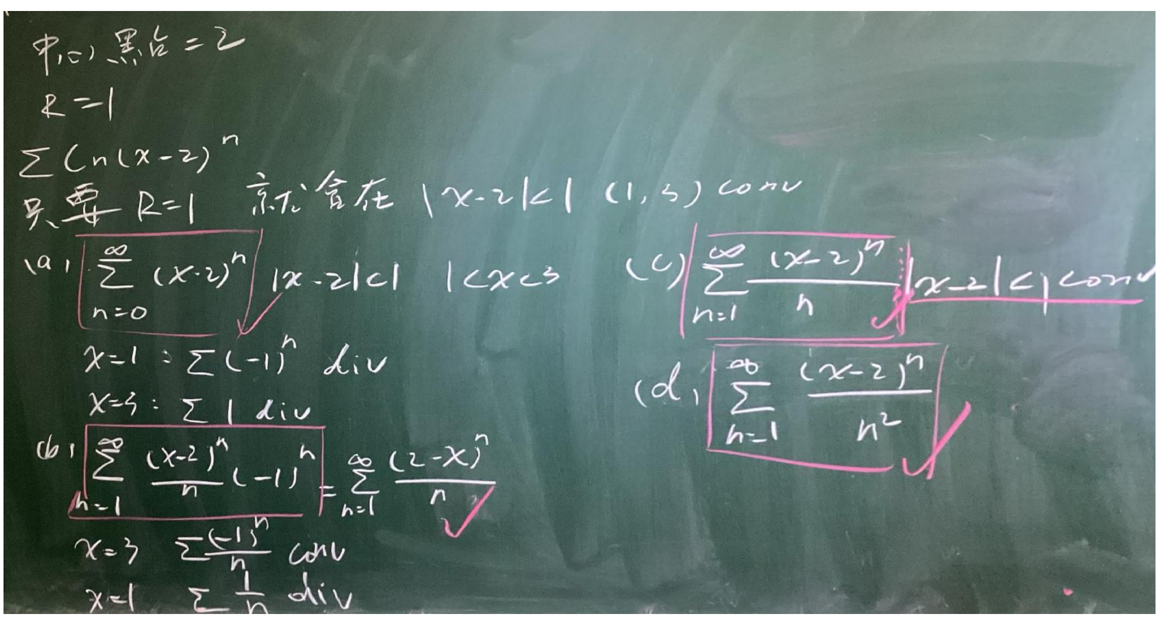


Figure 7: Solution to Homework 05, problem 3

4. Section 10.7: Homework 05, problem 04:

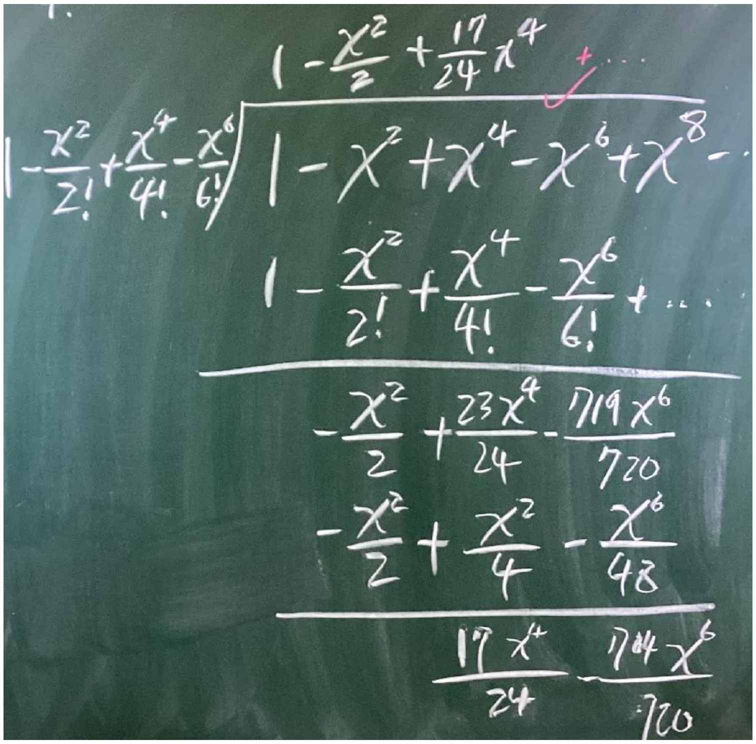


Figure 8: Solution to Homework 05, problem 4

5. Section 10.7: Solutions, common mistakes and corrections:

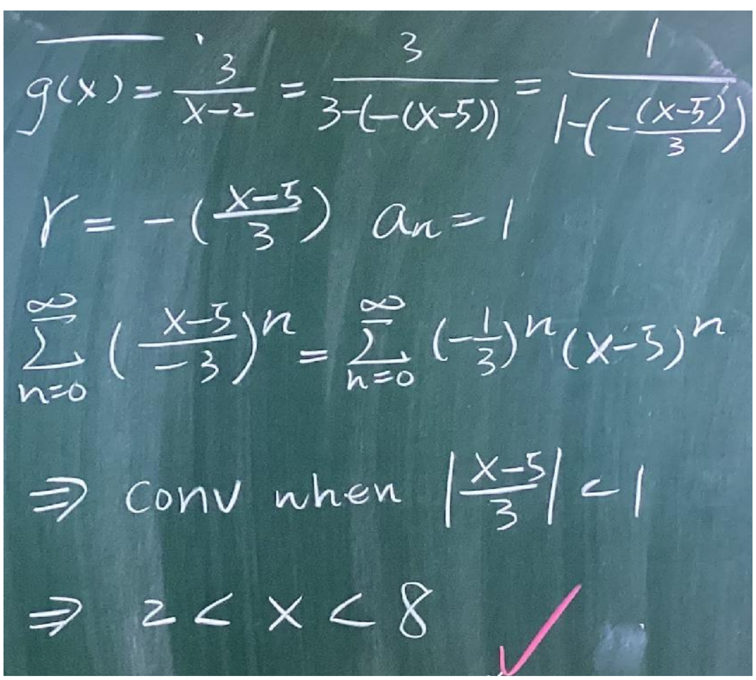


Figure 9: Solution to Section 10.7, problem 51

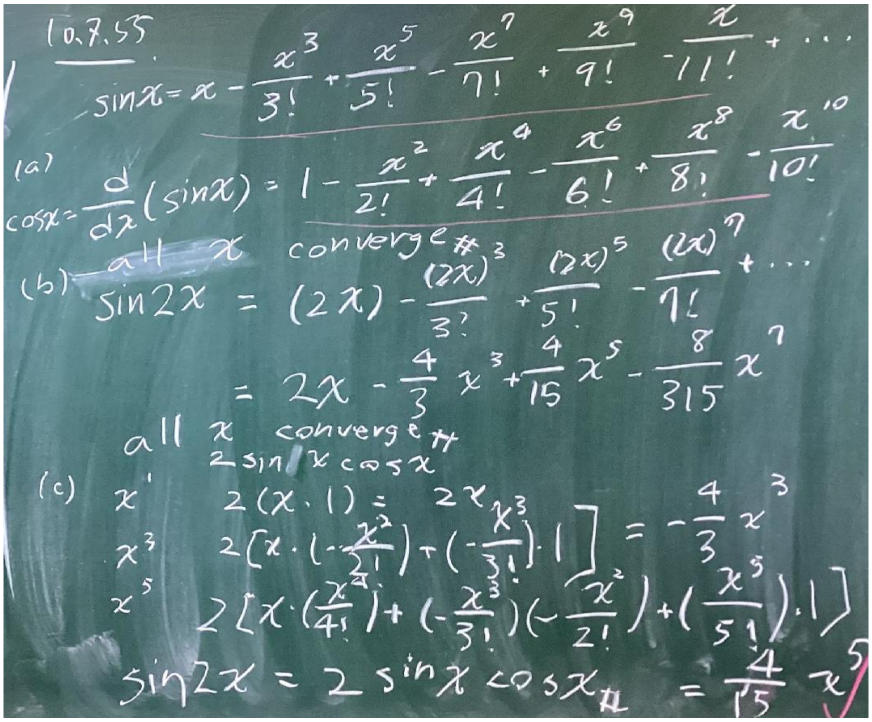


Figure 10: Solution to Section 10.7, problem 55

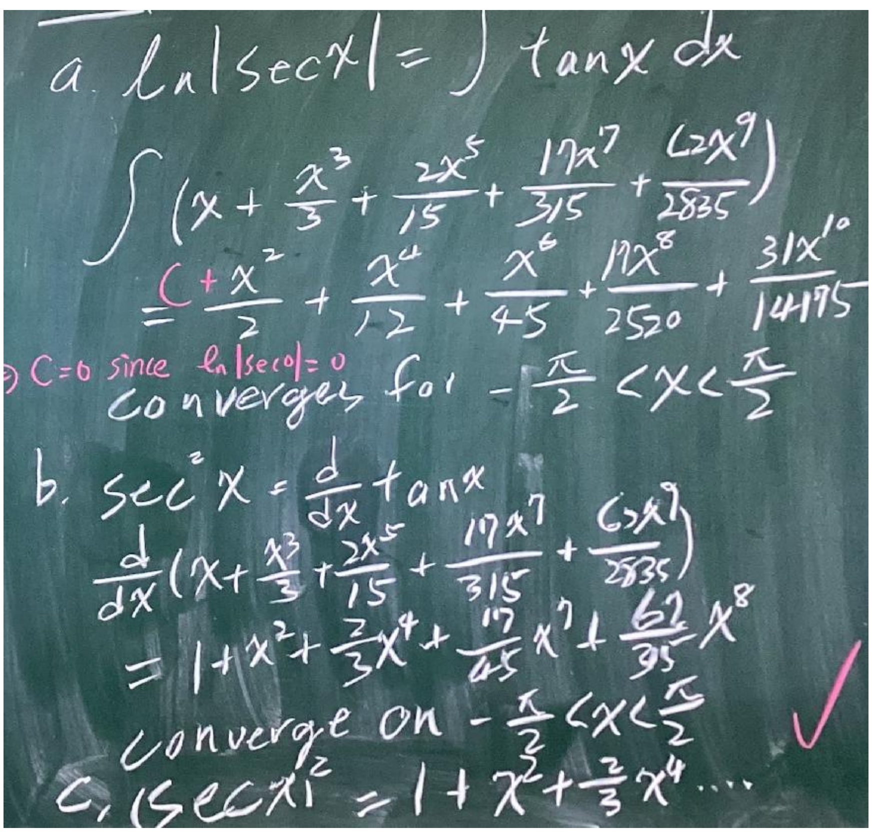


Figure 11: Solution to Section 10.7, problem 57

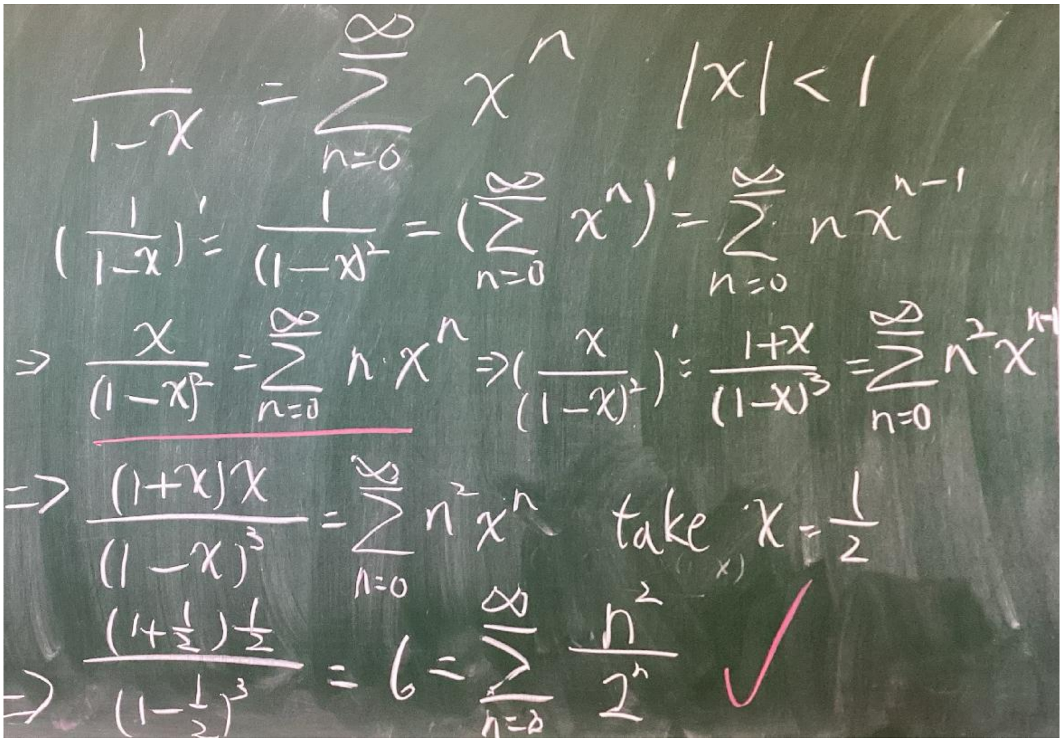


Figure 12: Solution to Section 10.7, problem 60

6. Section 10.7: Homework 05, problem 06:

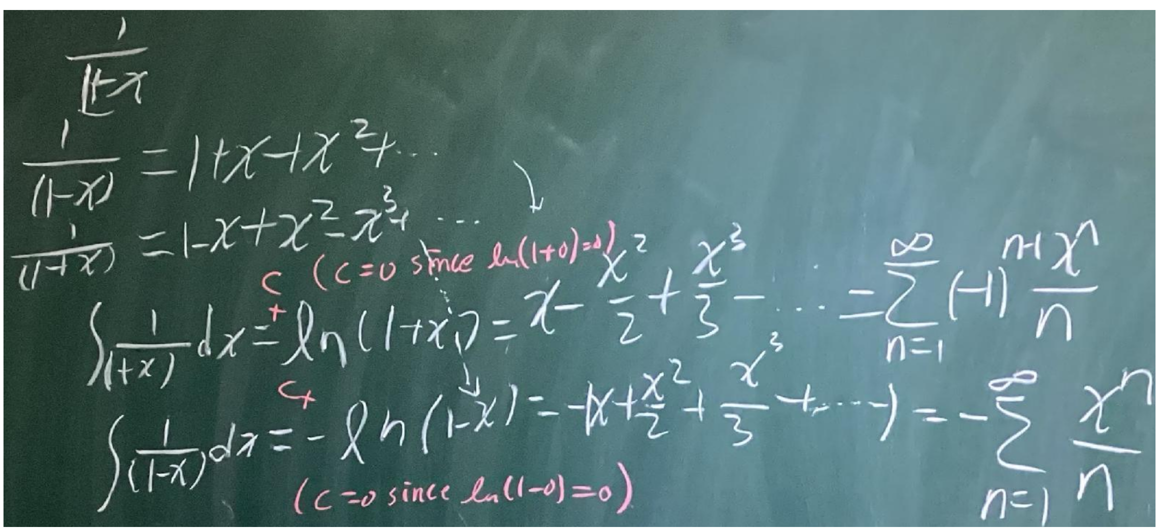


Figure 13: Solution to Homework 05, problem 6

Remark: A better alternative is to use the definite integral version of Theorem 22 (Term by Term Integration). See page 5 and page 7 of Lecture 08 (v02).

7. Section 10.8: Solutions, common mistakes and corrections:

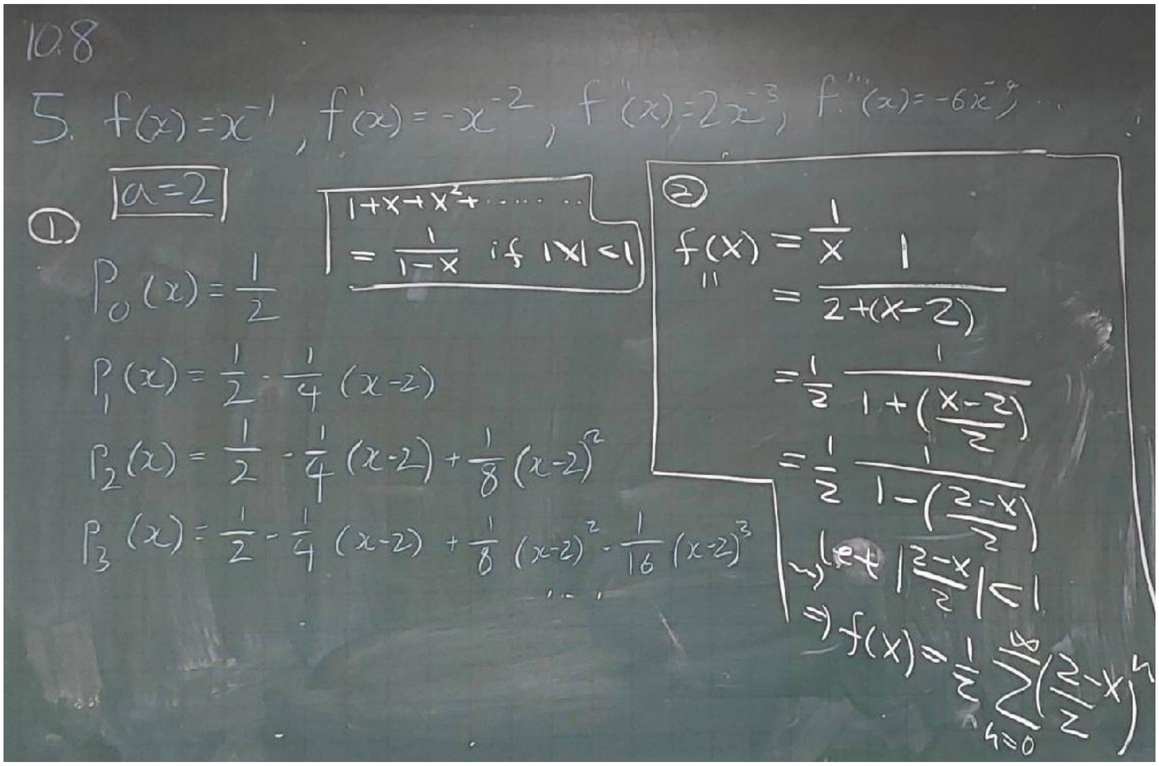


Figure 14: Solution to Section 10.8, problem 05

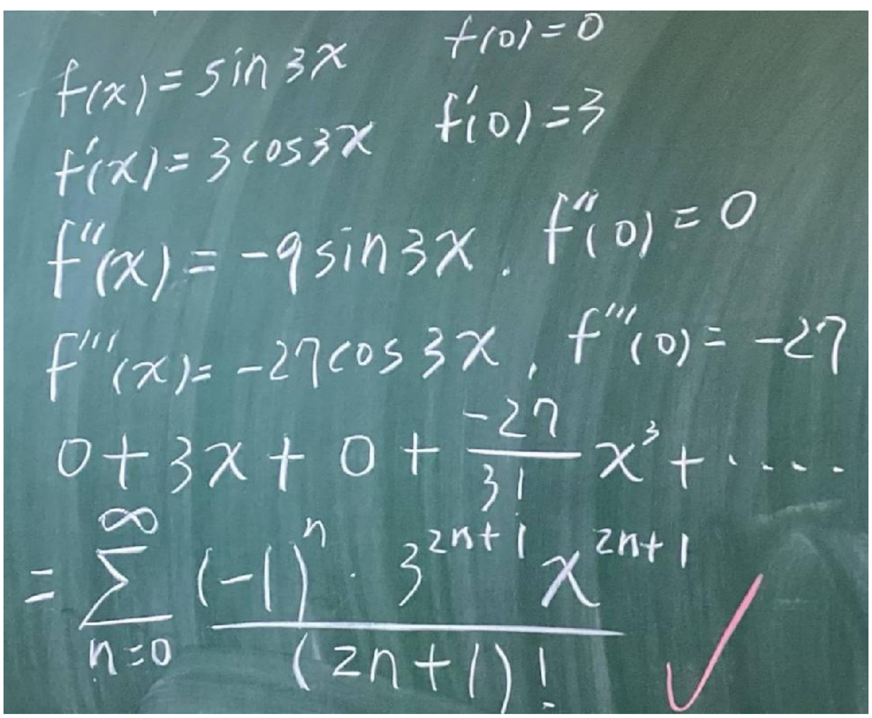


Figure 15: Solution to Section 10.8, problem 15