

Homework Set 1

DUE: SEP 5, 2018 (AT THE BEGINNING OF CLASS)

To be handed in*Please write your solutions to Problems 1 and 2 on opposite sides of the same sheet of paper!*

1. Consider the line passing through the points $(-1, 2)$ and $(3, 5)$.
 - a) Sketch the graph of this line.
 - b) What is the slope of this line?
 - c) What is the slope-intercept equation of this line?

2. Find all real numbers x that solve the equation $(x^2 - 1)(3x + 1)e^{-7x} = 0$.
Hint: If $abc = 0$, then either $a = 0$ or $b = 0$ or $c = 0$.

3. Textbook (5th edition) Section 1.1, Exercises 1-4

4. Textbook (5th edition) Section 1.2, Exercises 19, 23-26

5. Textbook (5th edition) Section 1.3, Exercises 5-8

6. Textbook (5th edition) Section 1.5, Exercises 1, 2, 9-12, 83-86

7. Textbook (5th edition) Section 2.2, Exercises 17-26