Session 1

Reading assignment

Liberzon chapters 1 – 2.4.

Exercises

1.1. = Liberzon Exercise 1.1

1.2. = Liberzon Exercise 1.5

1.3. = Liberzon Exercise 2.2

1.4. = Liberzon Exercise 2.3

1.5. Read Liberzon Chap.2.3.3 and explain how we can avoid assuming $y \in \mathcal{C}^2$. Prove Lemma 2.2 (Liberzon Exercise 2.4).

1.6. = Liberzon Exercise 2.5 (State the brachistochrone problem first.)

1.7. = Liberzon Exercise 2.6

1.8. = Liberzon Exercise 2.7