

Convex Optimization Homework Solutions

Andres Espinosa

September 3, 2024

Contents

1	Homework 1	2
1.1	Exercise 2.1	2
1.2	Exercise 2.2	2
1.3	Exercise 2.5	2
1.4	Exercise 2.7	2
1.5	Exercise 2.8	2
1.6	Exercise 2.11	2
1.7	Exercise 2.12	2
1.8	Exercise 2.15	2

1 Homework 1

1.1 Exercise 2.1

1.2 Exercise 2.2

1.3 Exercise 2.5

1.4 Exercise 2.7

1.5 Exercise 2.8

1.6 Exercise 2.11

1.7 Exercise 2.12

1.8 Exercise 2.15