



## 1 Homework Set 1

1 Grimaldi's book (5. ed., Exercises 2.1, page 54): solve **Exercise 3**

2 Grimaldi's book (5. ed., Exercises 2.1, page 54): solve **Exercise 8**

3 Grimaldi's book (5. ed., Exercises 2.1, page 54): solve **Exercise 9**

4 Grimaldi's book (5. ed., Exercises 2.2, page 66): solve **Exercise 13**  
(Note that the truth value  $1=T$ .)

5 Is the following argument valid?

$$(p \rightarrow q) \wedge \neg p \implies \neg q$$

Detail all steps of your reasoning.

6 Study EXAMPLE 2.18 in Grimaldi's book (5. ed., page 64) and solve **Exercise 20**  
of Exercises 2.2 (page 67).

7 Grimaldi's book (5. ed., Exercises 2.3, page 85): solve **Exercises 9**

8 Grimaldi's book (5. ed., Exercises 2.3, page 85): solve **Exercises 11 c,d**