MA0301 Elementary
discrete mathematics
Spring 2017

Norwegian University of Science
and Technology
Institutt for matematiske fag

Exercise set 2

1 Homework Set 2

$\boxed{1}$ Grimaldi's book (5. ed., Exercises 2.4, page 101): solve **Exercise 8**

$\boxed{2}$ Grimaldi's book (5. ed., Exercises 2.4, page 102): solve **Exercise 19**

$\boxed{3}$ Grimaldi's book (5. ed., Exercises 2.5, page 116): solve **Exercise 8**

$\boxed{4}$ Grimaldi's book (5. ed., Exercises 3.1, page 145): solve **Exercise 22**

$\boxed{5}$ Grimaldi's book (5. ed., Exercises 3.2, page 157): solve **Exercise 16**

$\boxed{6}$ Let
$$C := \{n \in \mathbb{N} \mid n \text{ is a multiple of } 12\}$$
and
$$D := \{n \in \mathbb{N} \mid n \text{ is a multiple of } 2 \text{ and } n \text{ is a multiple of } 6\}.$$
Which of the statements is true: $C \subset D$, $D \subset C$, $C = D$.