

MA0301
ELEMENTARY DISCRETE MATHEMATICS
NTNU, SPRING 2022

SET 8

Deadline: Monday 14.03.2022, 23:59

Exercise 1. *Lewis, Zax: Exercise 13.4.*

Exercise 2. *Lewis, Zax: Exercise 13.5.*

Exercise 3. *Lewis, Zax: Exercise 13.6.*

Exercise 4. *Lewis, Zax: Exercise 16.1.*

Exercise 5. *Give an example of a connected graph where removing any edge of G results in a disconnected graph.*

Exercise 6. *Lewis, Zax: Exercise 16.2.*

Exercise 7. *For the graph in figure 11.7, determine:*

- a) a walk from b to d that is not a trail.*
- b) a $b - d$ trail that is not a path.*
- c) a path from b to d .*
- d) a closed walk from b to b that is not a circuit.*
- e) a circuit from b to b that is not a cycle.*
- f) a cycle from b to b .*

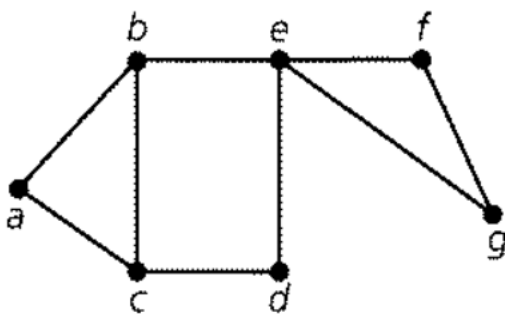


Figure 11.7