

# Discrete Mathematics: HW3

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## 1.6

- 4 What rule of inference is used in each of these arguments?
- a. Kangaroos live in Australia and are marsupials. Therefore, kangaroos are marsupials.
  - c. Linda is an excellent swimmer. If Linda is an excellent swimmer, then she can work as a lifeguard. Therefore, Linda can work as a lifeguard.
  - e. If I work all night on this homework, then I can answer all the exercises. If I answer all the exercises, I will understand the material. Therefore, if I work all night on this homework, then I will understand the material.

- 6 Use rules of inference to show that the hypotheses "If it does not rain

8

10 h

- a.
- b.

14 h

- a.
- b.

24

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## 1.7

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