# Exercises 6

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## **5.4**

There is an Euler circuit. a -> b -> c -> d -> h -> i -> c -> g -> d -> e -> c -> a -> i -> b -> h -> e -> f -> g -> h -> a

#### 5.11

There is an Euler path. a -> d -> e -> d -> b -> e -> b -> c -> e -> c -> b -> a -> e

#### 5.14

- a)  $K_n$  has an Euler circuit when n is even.
- **b)**  $C_n$  has an Euler circuit for all n.
- c)  $W_n$  has not Euler circuit for all n.
- a)  $Q_n$  has an Euler circuit when n is even.

## 5.17

There has not Hamilton circuit. As agf has one degree.

## 6.3

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a \mathrel{->} c \mathrel{->} d \mathrel{->} e \mathrel{->} g \mathrel{->} z
```

#### 6.6