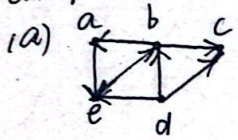


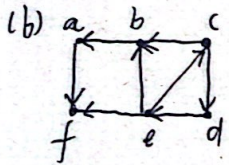
Homework 06 22csT 蒋云翔

Section 10.4

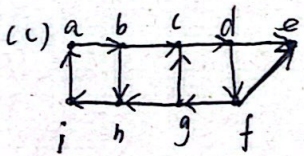
Ex. 14:



strongly connected components are: $\{a, b, c, d, e\}$, $\{c\}$, $\{d\}$

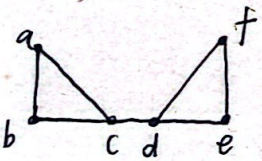


strongly connected components are: $\{c, d, e\}$, $\{a\}$, $\{b\}$, $\{f\}$



strongly connected components are: $\{a, b, c, d, f, g, h, i\}$, $\{e\}$

Ex. 32.



The cut vertices are "c" and "d" because remove one any one of them, the graph ~~to~~ will not be connected anymore.

Ex 34:

(31) This graph has no cut edge.

(32) "c,d"

(33) "a,b" "b,c" "c,d" "c,e" "e,i" "i,h"

Section 10.5

Ex. 26:

(a) K_n : when $n \geq 1$ and when n is odd.

(b) C_n : when $n \geq 3$; all n is okay

(c) W_n : No n is suitable

(d) Q_n : $n \neq 0$ and n is even

Ex. 44

(a) K_n : when $n \geq 3$

(b) C_n : when $n \geq 3$

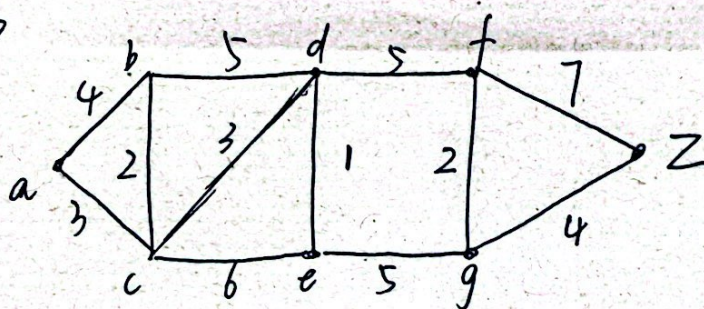
(c) W_n : when $n \geq 3$

(d) Q_n : when $n \geq 2$

Section 10.6

Ex. 6:

(b) a and f:



Sol: $a \rightarrow c \rightarrow d \rightarrow f$