

Label 5	1:3		3				d 3	e #2			
Label 1	2:1:3								a #6	b #2	c 3
Label 6	1:3						d 3	e #2			
Label 3	3	3		a #1	b #2	c 3					
Label 8	-	m 3	n 3								

Geyer

Aufgabe 6

a)

gewählt	Randknotenmenge
(1, 0, -)	$\{(2, 6, 1), (3, 2, 1), (4, 7, 1)\}$
(3, 2, 1)	$\{(2, 3, 3), (4, 6, 3), (6, 5, 3)\}$
(2, 3, 3)	$\{(4, 6, 3), (5, 16, 2), (6, 9, 3)\}$
(4, 6, 3)	$\{(5, 16, 2), (6, 9, 3), (7, 7, 4)\}$
(7, 7, 4)	$\{(5, 16, 2), (6, 9, 3), (8, 18, 7)\}$
(6, 9, 3)	$\{(5, 12, 6), (8, 18, 7)\}$
(5, 12, 6)	$\{(8, 16, 5)\}$
(8, 16, 5)	\emptyset

Zielknoten	Pfadlänge	kürzester Pfad
1	0	[1]
2	3	[1, 3, 2]
3	2	[1, 3]
4	6	[1, 3, 4]
5	12	[1, 3, 6, 5]
6	9	[1, 3, 6]
7	7	[1, 3, 4, 7]
8	16	[1, 3, 6, 5, 8]

b)

Zielknoten	Pfadlänge	kürzester Pfad
1	0	[1]
2	3	[1, 3, 2]
3	2	[1, 3]
4	6	[1, 3, 4]
5	12	[1, 3, 4, 7, 6, 5]
6	9	[1, 3, 4, 7, 6]
7	7	[1, 3, 4, 7]
8	16	[1, 3, 4, 7, 6, 5, 8]

→ Auswahl Knoten 7 entweder (6, 9, 7) oder (6, 9, 3)