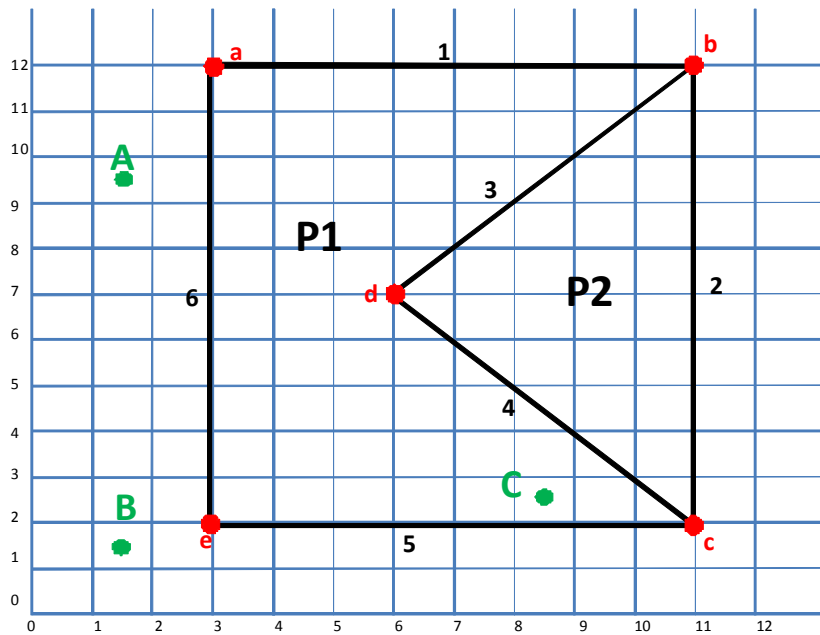


**GIS 310**  
**Class Test 2**  
**4 April 2011**

1. Illustrate (in a tabular form) how the structure of the following figure will be stored in a topological vector model:

(30)



Point id	X	Y
A	1.6	9.5
B	1.5	1.4
C	8.5	2.6

Node	X	Y
a	3	12
b	11	12
c	11	2
d	6	7
e	3	2

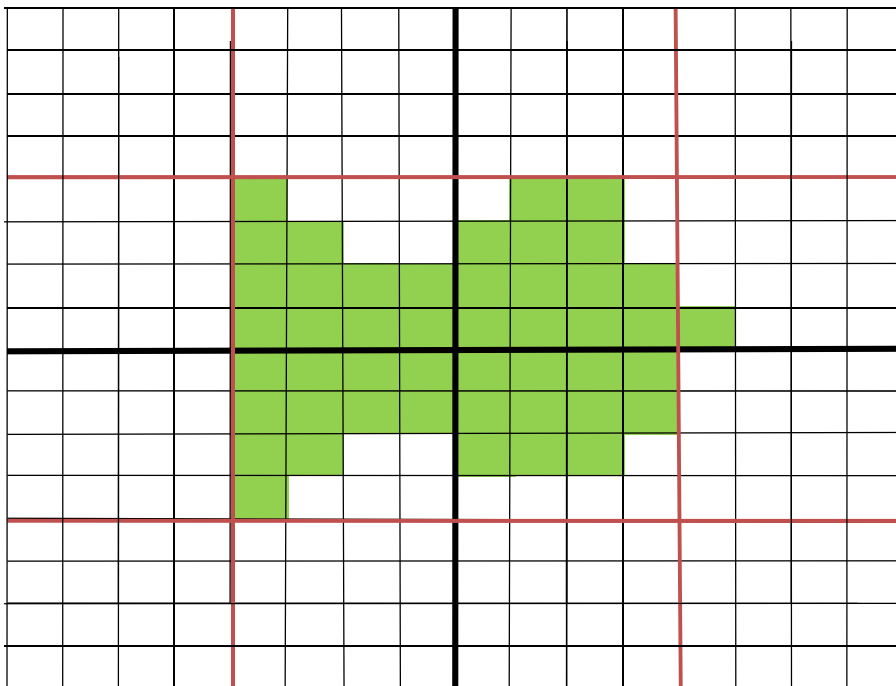
Line id	Begin node	End node	Left poly	Right poly
1	a	b	-	P1
2	b	c	-	P2
3	b	d	P2	P1
4	c	d	P1	P2
5	c	e	-	P1
6	e	a	-	P1

Polygon id	Lines
P1	1, 3, 4, 5, 6
P2	2, 4, 3

2. Illustrate the raster layer that will be represented by the following quad tree table: (Use the attached grid to indicate your answer and hand in together with your paper)

(20)

**Total 50**



**fs**