Dakota Nelson
10/27/16

I. 1. a) ii

b) i

c) iv

d) iii

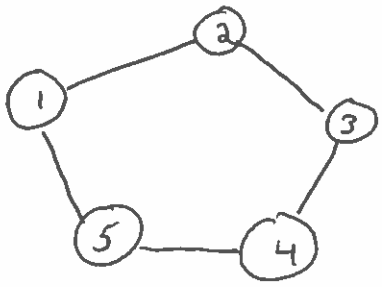
2. a) 1, 2, 3, 4, 1

b) no cycle

c) no cycle

d) 1, 2, 5, 1

3.



4. $G = (\{1,2,3,4,5,6\}, \{1,2\}, \{2,3\}, \{3,1\}, \{3,4\}, \{3,5\}, \{1,4\}, \{4,5\})$

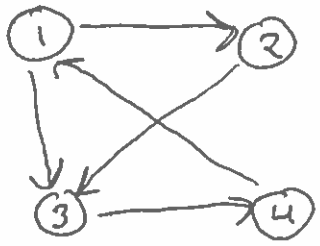
II. 5. a) i

b) iii

c) ii

~~d)~~

6. b is the only one with a cycle, a and c are DAG.

7. 

This graph is not a DAG

6. $G = (\{1, 2, 3, 4\}, \{(1,2)\}, \{2,4), (3,1), (3,2), (3,4)\}$

7.

	1	2	3	4
1	0	1	0	1
2	0	0	0	0
3	0	1	0	1
4	0	0	0	0