

# Unit 9 - Week 8

**Course outline**

How to access the portal?

**Week 1**

**Week 2**

**Week 3**

**Week 4**

**Week 5**

**Week 6**

**Week 7**

**Week 8**

- Dual of a Graph
- Coloring of Graphs - I
- Coloring of Graphs - II
- Tree - I
- Tree - II
- Quiz : Assessment-8

**Week 9**

**Week 10**

**Week 11**

**Week 12**

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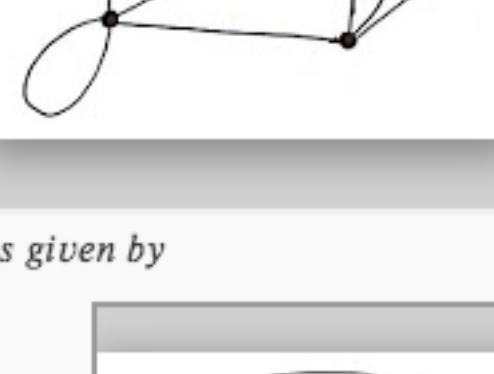
## Assessment-8

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-09-25, 23:59 IST.

1) The dual of the planar graph

1 point



is given by

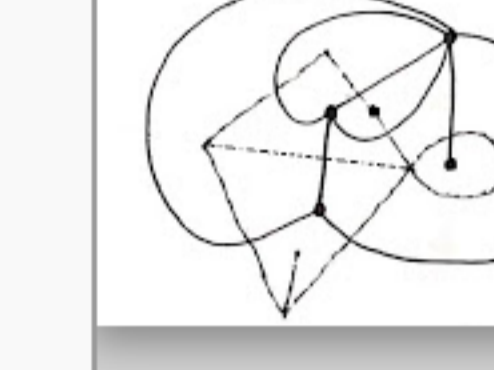
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No, the answer is incorrect. Score: 0

Accepted Answers:

2) The dual of the planar graph

1 point



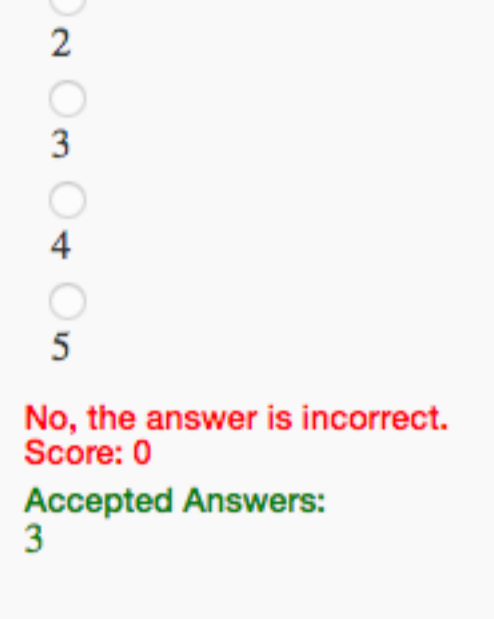
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No, the answer is incorrect. Score: 0

Accepted Answers:

3) Using Welch – Powell algorithm the number of colours required to paint the following graph

1 point



- 2
- 3
- 4
- 5

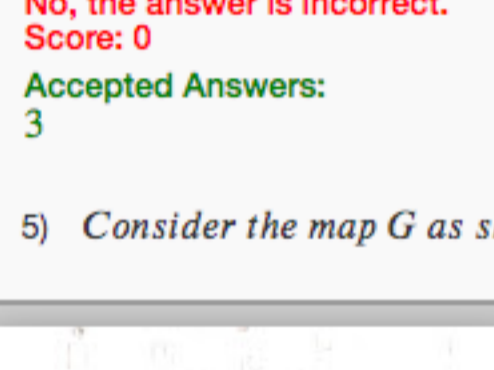
No, the answer is incorrect. Score: 0

Accepted Answers:

3

4) The chromatic number of the graph given below

1 point



is equal to

- 3
- 2
- 4
- 5

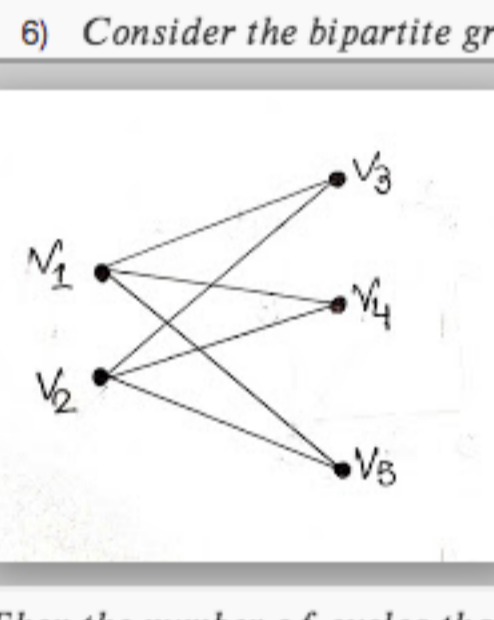
No, the answer is incorrect. Score: 0

Accepted Answers:

3

5) Consider the map G as shown below :

1 point



Then the minimum number of colors required to paint G is

- 4
- 5
- 3
- 2

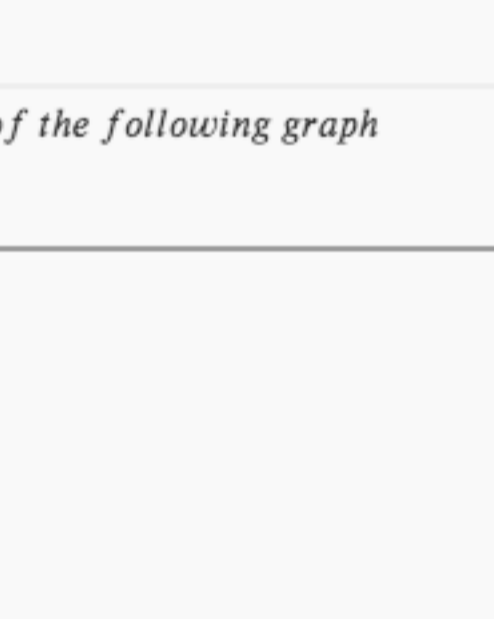
No, the answer is incorrect. Score: 0

Accepted Answers:

2

6) Consider the bipartite graph  $K_{4,4}$  as shown below :

1 point



Then the number of cycles that start with  $v_1$  and their lengths are, respectively, given by

- 3, 4
- 6, 4
- 4, 4
- 5, 4

No, the answer is incorrect. Score: 0

Accepted Answers:

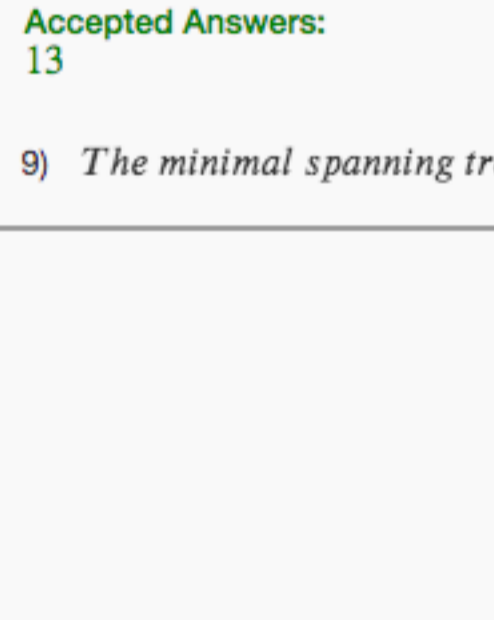
6, 4

7) Which of the following graph(s) is/are spanning tree(s) ?

1 point



of the following graph



- (iii) only
- (ii), (iii), (iv) and (v) only
- (i), (iii) and (vi) only
- all (i) – (vi)

No, the answer is incorrect. Score: 0

Accepted Answers:

(ii), (iii), (iv) and (v) only

8) The minimal spanning tree of the graph G shown below has length sum equal to

1 point



- 11
- 12
- 13
- 15

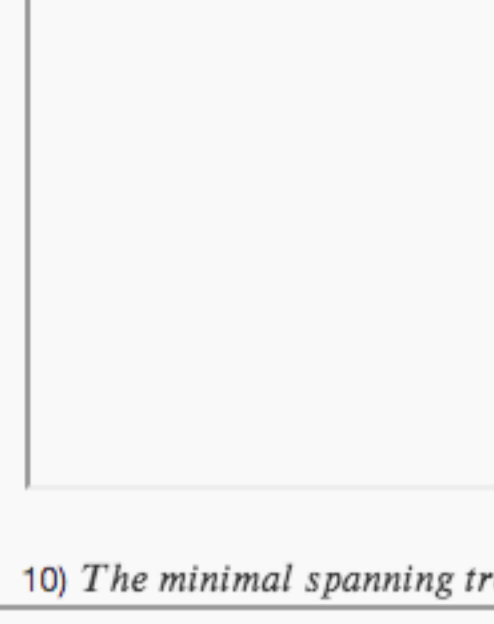
No, the answer is incorrect. Score: 0

Accepted Answers:

13

9) The minimal spanning tree of the labeled graph below :

1 point



is given by

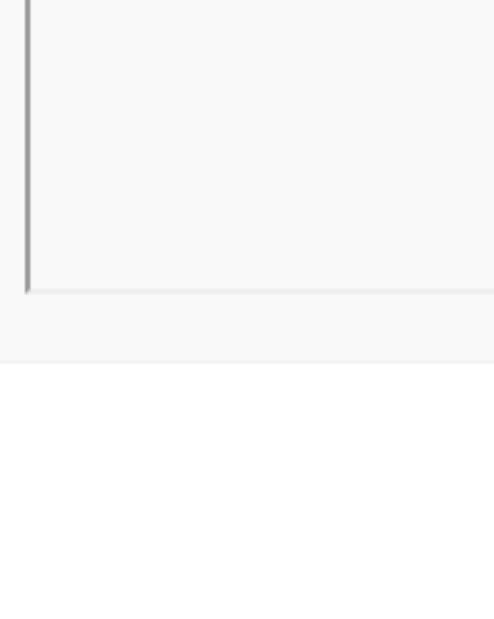
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No, the answer is incorrect. Score: 0

Accepted Answers:

10) The minimal spanning tree of the labeled graph below :

1 point



is given by

- 
- 
- 
- 

No, the answer is incorrect. Score: 0

Accepted Answers: