CS & IT



Graph Theory

Discrete Mathematics



DPP 04 Discussion notes





TOPICS TO BE COVERED

01 Question

02 Discussion



If a hypercube (Q_n) is given with edges 193, then the number of Pw



[MCQ]





None of these

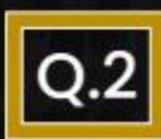
vertices will be

$$no.of edges = n.2^{n-1}$$

$$193 = n.2^{n-1}$$

$$193 = \frac{n \cdot 2}{2}$$

$$-)n=5$$
 5. 25
$$n=6$$
 6.26
$$n=7$$
 7.27



consider the following statements:



[MCQ]

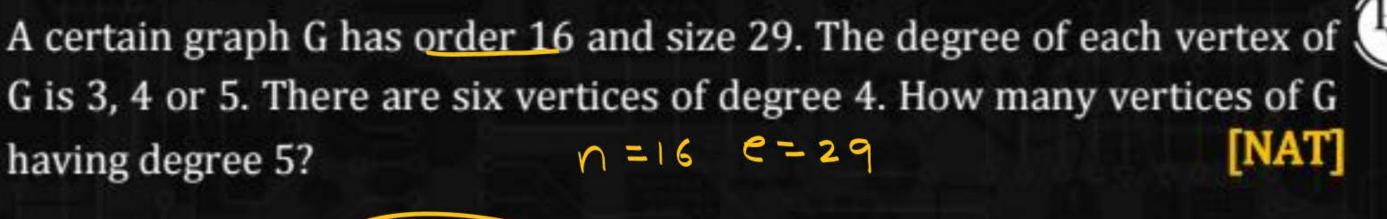
S₁: Every hypercube graph is a bipartite graph.

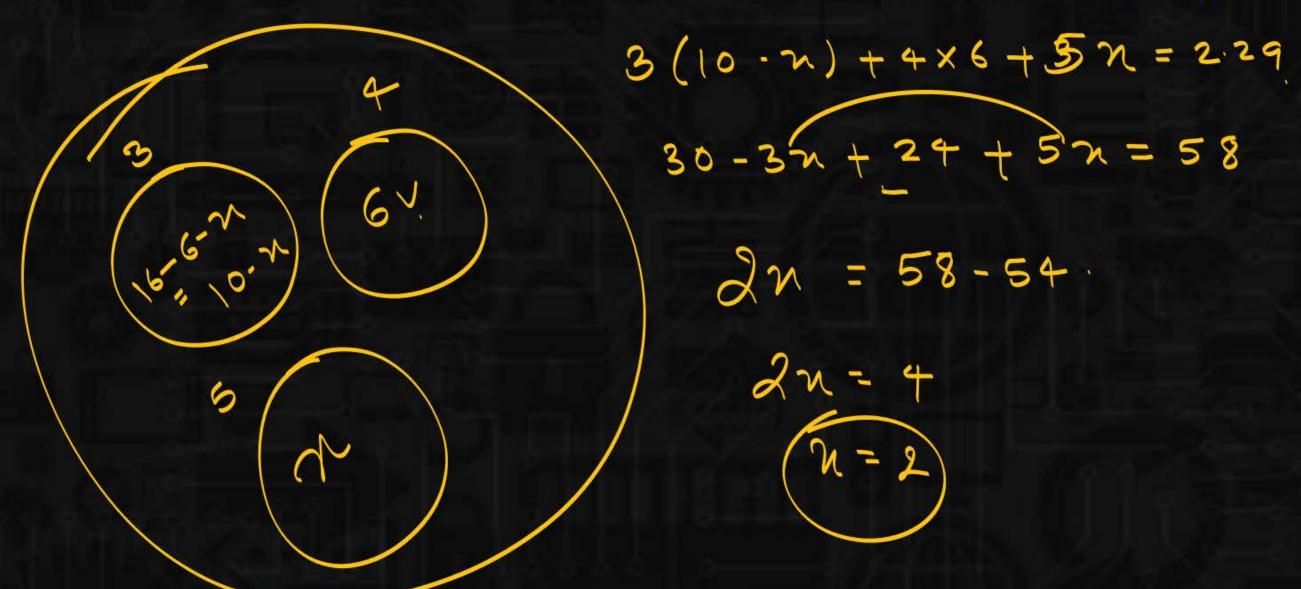
S2: Every bipartite graph is also a hypercube.

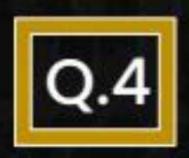
Which of the following options is True?



- S_2 only
- C. Both S_1 and S_2
- D. Neither S₁ nor S₂

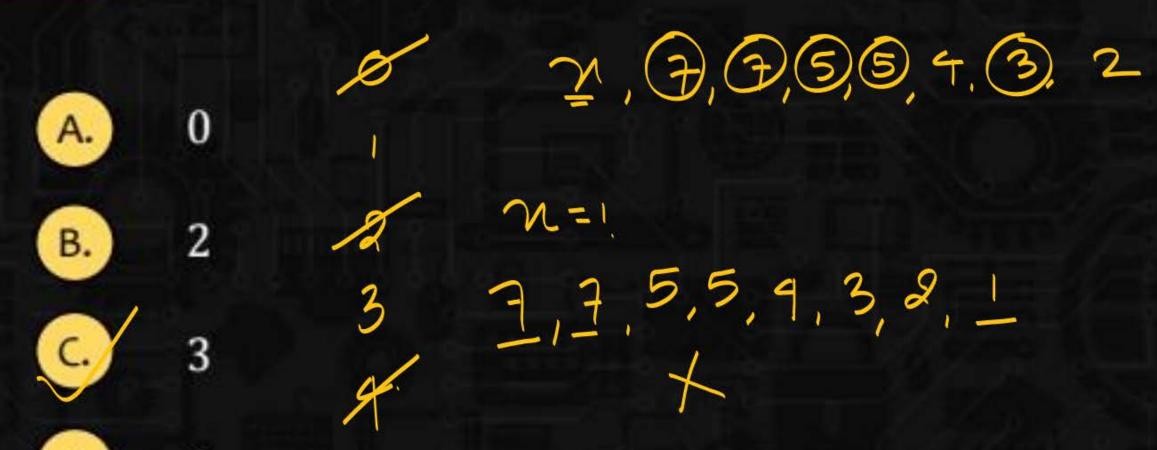






If the sequence x, 7, 7, 5, 5, 4, 3, 2 is graphical then what are the possible value of x $(0 \le x \le 4)$? [MCQ]

he W

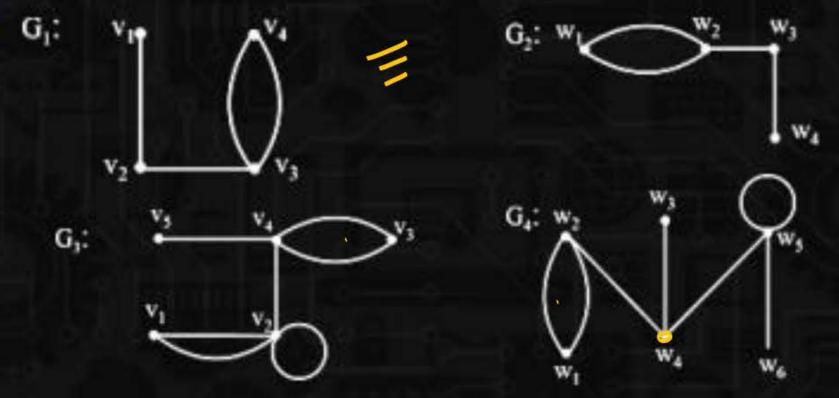




Which of the following graphs are isomorphic graph?



[MSQ]



- A. G_1 and G_2 are isomorphic $\langle (\alpha, d) \rangle$
- B. G_3 and G_4 are isomorphic
- G₁ and G₂ are not isomorphic
- D. G₃ and G₄ are not isomorphic



