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V 6453

6.1

MATH 221-003

deg(A) = deg(c) = 2 deg(B) = deg(0) = 3

MATH 221 (Homework-3)

8. (a) If the graph exists, the sum of degree of vortices

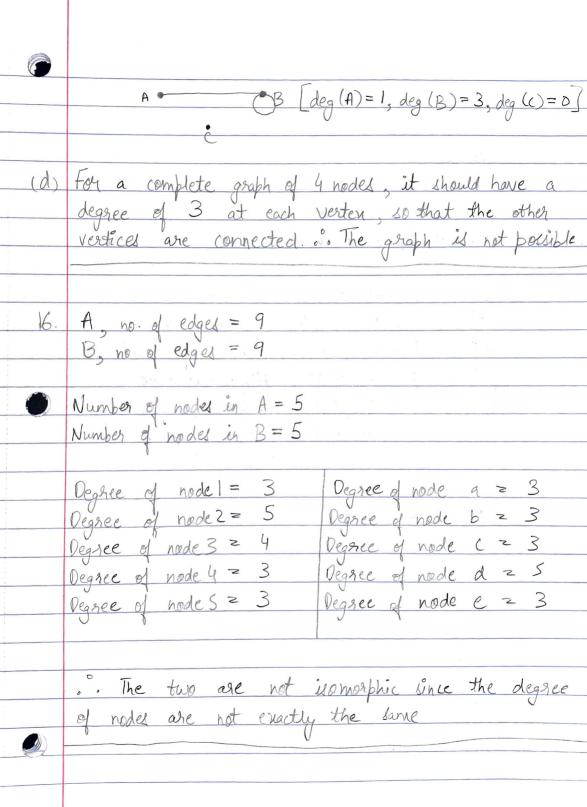
13 - 7x3 = 21For any graph to exist; the sum of degrees of each verten should be even And in they case,

it is odd. . The graph cannot exist.

(b) The sum of these nodes = 2x2+3x3 = 10

As the sum of degrees of each verten is even, the graph is possible.

(C) The sum of these nodes = 0+1+3=4. As the sum of degree of each verten is even, The graph



18. Number of edges in A = 12 Number of edges in B = 12 Number of nodes in A = 6 Number of nodes in B = 6 Degree of node a = 4 Degree of node b = 4 Degree of node 1 = 4 Degree of nade 2 = 4 Degree of node 3 = 4 Degree of node 6 = 4 Degree of node 4 = 4 Degree of node d = 4 Degree of nade 1 = 4 Degree of node 5 = 4 Degree of node 6 = 4 G(1) = aG(2) 2 b G(4) 2 d .. These two graphs are isomorphic

