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Section: CS(J)
A $Z$
ESSIGNMENT #3
QUESTION # 1
By Binomial Theorem:
$\Rightarrow a^{4}+b^{4}+c^{4}+4(a^{3}b+a^{3}c+b^{3}a+b^{3}c+c^{3}a$
$+c^{3}b$ ) $+6(a^{2}b^{2}+b^{2}c^{2}+c^{2}a^{2})+12(a^{2}bc+b^{2}ca)$
+c2ab)
co-efficients are 1,4,6,12 of order 4
it tom can be represented as:
[a+(b+c)]4 = a4+4(b+c)a3+6(b+c)2+4a(b+c)3
+ (b+c)4
Question # 2
Suppose my > 0. If repetition is allowed men.
$\chi_1 \chi_2 \chi_3 \chi_4 = 11$
$V = 11 \qquad n = 4$
C(r+n-1,r)=(14,11)
ハ(n-n) => 141 => 364 fg
) ((1-1))

## QUESTION # 3

Determining the Degree of every vertex in

Graph + 1:

$$deg(v_5) = 3$$

Sequence of Degree = 3,3,3,2,2

Graph # 2:

Sequence 07 Deglee = 4,3,3,2,2,2

Not isomorphic because they don't have some deglee sequence.