

4. (2+8=10 pts.) Let a_n be the number of strings of length n consisting of letters A, B, C that contain two consecutive A's.

a) Compute a_2 and a_3 .

$$a_2 = 1 \quad \text{AA}$$

$$a_3 = 5 \quad \text{AAA} \quad \text{AA?} \quad \text{?AA}$$

b) Find a recurrence relation for a_n .

Focus on the last two digits.

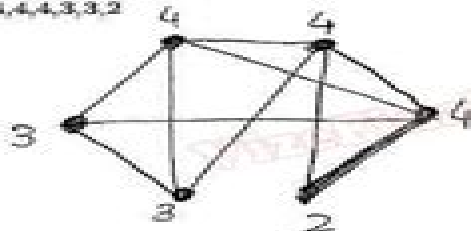
$$\begin{array}{l} \text{--- B} \\ \text{--- C} \\ \text{--- AA} \\ \text{--- BA} \\ \text{--- CA} \end{array} \left. \begin{array}{l} \\ \\ \\ \end{array} \right\} \begin{array}{l} \rightarrow 2a_{n-1} \\ \rightarrow 3^{n-2} \\ \rightarrow 2 \cdot a_{n-2} \end{array}$$

$$a_n = 2a_{n-1} + 2a_{n-2} + 3^{n-2}$$

for all $n \geq 4$

5. (4+4+2=10 pts.) Is there a simple graph whose vertices have the following degrees (if yes, please draw such a graph; if not, justify):

a) 4,4,4,3,3,2



Yes. There is such a graph.

b) 4,4,3,2,1,0. Say, these are degrees of $v_1, v_2, \dots, v_6$ respectively.

$$\begin{array}{l} v_1 \text{ is connected to } v_2, v_3, v_4, v_5 \\ v_2 \text{ " " " " } v_1, v_3, v_4, v_5 \end{array} \Rightarrow \deg(v_5) \geq 2$$

Contradiction. Such a graph cannot exist.

c) 4,3,3,2,1,0

$$4+3+3+2+1+0 = 13 \text{ odd}$$

Sum of degrees must be even. Such a graph cannot exist.

Study Guide For Byu Algebra Class

James P. Howard, II, John F. Beyers



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Pudwell,2019-09-16 A Mathematician's Practical Guide to Mentoring Undergraduate Research is a complete how to manual on starting an undergraduate research program Readers will find advice on setting appropriate problems directing student progress managing group dynamics obtaining external funding publishing student results and a myriad of other relevant issues The authors have decades of experience and have accumulated knowledge that other mathematicians will find extremely useful

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Compact Guide to Colleges Barron's Educational Editorial Staff,Barrons Educational Series,2000-08 This smaller and less expensive version of Barron's Profiles of American Colleges has been updated for the 2000 2001 school year It describes approximately 400 colleges across the United States in profiles adapted from the larger book The Compact Guide to Colleges mainly profiles schools that fall within Barron's top three categories on the academic competitiveness scale Most Competitive Highly Competitive and Very Competitive

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