

History of Mathematics



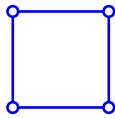
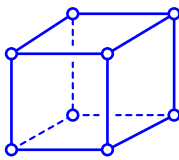
Thirteenth Homework:
Due Monday 2 May 2022.

Math 629
25 April 2022

To hand in: We are using Gradescope for homework submission.

1. [10] Exercise 24.2.1
2. [15] Exercise 24.2.2
3. [10] Exercise 25.5.2
4. [10] Exercise 25.5.4
5. [15] Exercise 25.5.5
6. [20] After building your model of the 4-cube, complete the worksheet (on the next sheet of paper).
7. [20] Write a paragraph about what you we learned from the project.

Cubes Worksheet

d	d -Cube	v	e	f_2	f_3	f_4	f_5	Sum
0								
1								
2								
3								
4	[Your Model]							
5	[Your Mind]							
n	[Your Mind]							
d	d -Cube	v	e	f_2	f_3	f_4	f_5	Sum

What is the sum of the face numbers of a d -cube?

What about its face numbers? [The second question is hard.](#)

This is a picture of the Schlegel diagram of the four-dimensional cube. It is different from the model you just made.

