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a set is called finite if it is in fact finite. most of the major mathematical concepts used in mathematics are used in discrete mathematics. from the calculus we have several discrete concepts such as the discrete continuity, and the discrete differentiation. we begin the module by introducing the power set concept, which is used throughout the module. it's the set of all the subsets of a , denoted 2^a , and its elements are called elements. it is an axiomatic structure which is used in several ways in discrete mathematics. if p is any set, then 2^p is the set of all the elements of p and q . $p \rightarrow q$ is the set of all the functions from p to q . a function f is said to be a one-to-one correspondence with the set q if and only if f is a bijection from p to q . if a is a set, then the number of elements in a is called the cardinality of a . the set a has a natural number or cardinality, denoted $|a|$. the cardinality of the power set of a finite set is called the cardinality of the finite set. in this curriculum, we will be discussing very basic concepts of discrete math. we are focusing on a simple and concrete version of combinatorics. we will be mainly referring to the elements of discrete mathematics. by focusing on these basic examples we can spend less time on the complex ideas of more advanced topics. combinatorics combinatorics is the branch of mathematics concerned with the study of structures made of discrete objects such as numbers and letters. its subject matter ranges from the study of graphs to the theory of finite sets and (in some cases) the study of abstract algebras.

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there are also a huge number of free online books that can be found simply by searching for c.i. liu elements of discrete mathematics download free pdf, or thomas liu discrete mathematics (intermediate). be aware that there are a number of different definitions of discrete mathematics, so if you look at that 'descriptive' term, you should be aware that different people may mean different things by it. For example, one meaning I like is very similar to the lay definition of 'the things you've seen before in high school', but with a very detailed set of axioms to apply for membership. Another meaning I like is an abstracting of graph theory. So, one kind of discrete mathematics can really be just higher-order graph theory, and you could consider that more on the causal/explanatory side of things. When I read discrete mathematics, I want to get somewhere fast, and I don't always want to go there as an exercise. A course in mathematical logic is often used to teach discrete mathematics, but the formal proofs are somewhat removed from most people. So for me discrete mathematics is essentially a kind of real math that I find intrinsically interesting. I intend to try to find a way to combine this kind of math with other math I'm interested in, namely, probabilistic and statistical mechanics. A first step in that direction is to find out which parts of discrete math are amenable to that kind of combination. A second step is to learn what the implications are, for each of the physics terms, of the discrete notions: set, sequence, map, function. This is both a challenge and a pleasure, and I hope to do some of it this summer.

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