

Introduction

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Types of Proofs

1. Direct Argument - Assume the premise is true and logically deduce the conclusion with a sequence of logical steps
2. Construction - Prove something exists by showing how to make
3. Contradiction - Prove something is true by showing it can't be false
4. Weak Induction - Show that a statement is true for the case of 0 and if it's true for the case of i , then it's true for the case of $i + 1$
5. Strong Induction - Show that a statement is true for the case of 0 and if it's true for all cases $< i$, then it's true for the case of i