

Name:	Date:
Topic:	Class:
Main Ideas/Questions	Notes/Examples
<b>PATTERNS &amp; CONJECTURES</b>	Discovery and proof are two aspects of mathematics. Math facts are generally established by discovering a pattern, making a conjecture, and finally proving the conjecture. Follow the example below.
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <math>1 = \underline{\hspace{2cm}}</math>  <math>1 + 3 = \underline{\hspace{2cm}}</math>  <math>1 + 3 + 5 = \underline{\hspace{2cm}}</math>  <math>1 + 3 + 5 + 7 = \underline{\hspace{2cm}}</math>  <math>1 + 3 + 5 + 7 + 9 = \underline{\hspace{2cm}}</math> </div> <div style="width: 50%;"> <p>Find a pattern: Look for a pattern in the sum of the first 5 positive odd integers to the left.</p> <p>Make a conjecture: If the <math>n</math>th odd number can be written as <math>2n - 1</math>, write a conjecture about the sum of the first <math>n</math> positive odd integers:</p> <math>1 + 3 + 5 + 7 + 9 + \dots + (2n - 1) = \underline{\hspace{2cm}}</math> </div> </div>
<b>PROOF BY MATHEMATICAL INDUCTION</b>	<p>A proof is a clear argument that demonstrates the truth of a conjecture. Proving a method false simply requires a counterexample. Proving a conjecture true requires a more formal method. One such method of proof is called mathematical induction.</p> <p>The Principle of Mathematical Induction:</p> <p>Let <math>P_n</math> be a statement depending on a positive integer <math>n</math>. <math>P_n</math> is true for all positive integers <math>n</math> if and only if:</p> <ul style="list-style-type: none"> <li>• <math>\underline{\hspace{2cm}}</math> is true.</li> <li>• If <math>\underline{\hspace{2cm}}</math> is true for any positive integer <math>\underline{\hspace{2cm}}</math>, then <math>\underline{\hspace{2cm}}</math> is true.</li> </ul>
	<p>The main steps to prove a conjecture by induction are outlined below.</p>
	<p>➊ Base Case: Prove <math>P_1</math> is true.</p>
	<p>➋ Inductive Hypothesis: For any positive integer <math>k</math>, assume <math>P_k</math> is true.</p>
	<p>➌ Inductive Step: Prove <math>P_{k+1}</math> is true.</p>
<b>EXAMPLES</b>	<p>The induction to prove step 3 conjecture is true for all positive <math>n</math> integers.</p>
	<p>1. <math>1 + 3 + 5 + 7 + \dots + (2n - 1) = n^2</math></p>

# Sequences And Series Precalculus Unit 12 Lesson Key

**Marilyn Occhiogrosso**



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