

## Mathematical Induction Solutions

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### Mathematical Induction Solutions

Induction Examples Question 4. Consider the sequence of real numbers de ned by the relations  $x_1 = 1$  and  $x_{n+1} = p + 2x_n$  for  $n \geq 1$ : Use the Principle of Mathematical Induction to show that  $x_n < 4$  for all  $n \geq 1$ . Solution. For any  $n \geq 1$ , let  $P_n$  be the statement that  $x_n < 4$ . Base Case. The statement  $P_1$  says that  $x_1 = 1 < 4$ , which is true. Inductive Step.

Question 1. Prove using mathematical induction that for all  $n \geq 1$ ,  $n^2 \geq n$ .

This is the mathematical statement definition. Types of Reasoning in Maths. In terms of mathematics, reasoning can be of two major types which are: Inductive Reasoning; Deductive Reasoning; The other types of reasoning are intuition, counterfactual thinking, critical thinking, backwards induction and abductive induction.

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