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Mathematical Induction Practice  
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Examples ~~Proof by Mathematical  
Induction~~ ~~How to do a  
Mathematical Induction Proof (~~  
~~Example 1 )~~ ~~Proof by Induction~~  
~~Example 1~~ Induction Divisibility

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~~Challenging Proof by Induction~~  
~~Problem Mathematical Induction~~

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Induction: Inequality Proofs  
Inequality Mathematical Induction  
Proof:  $2^n$  greater than  $n^2$   
~~Proving Divisibility Statement~~  
~~using Mathematical Induction (1)~~  
Discrete Math 5.1.1 Mathematical

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~~Induction - Summation Formulae  
and Inequalities MATHEMATICAL  
INDUCTION - DISCRETE  
MATHEMATICS Induction with  
inequalities~~

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Learn how to use mathematical  
induction to prove a formula  
Learn to use induction to prove that the

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sum formula works for every term  
Induction Inequality Proof Example  
3:  $5^n + 9$  less than  $6^n$  Proof by  
Induction Example (Inequalities)

Induction Inequality Proof Example  
1:  $(k = 1 \text{ to } n) \frac{1}{k^2} \quad 2 - \frac{1}{n}$

Induction Inequality Proof Example  
4:  $n!$  greater than  $n^2$  Induction

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~~Solutions~~  
~~Proof Example 5:  $2^n$~~   
 ~~$n^2$~~  Proving with Induction Maths  
Skills: Mathematical Induction  
Prove  $n!$  is greater than  $2^n$  using  
Mathematical Induction Inequality  
Proof Mathematical Induction with  
Divisibility:  $3^{(2n + 1)} + 2^{(n +$   
 $2)}$  is Divisible by 7 ~~Proof by~~



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~~Mathematical Induction First~~

~~Example Mathematical Induction -  
Divisibility Tests (1) |~~

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Mathematical Induction Examples

| Solutions[Discrete Mathematics]

Mathematical Induction Examples

Mathematical Induction Class 11,

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Solutions for Class 11  
Maths Chapter 4 Example 2,3  
Reasons to Believe in God: Dr. Ben  
Arbour and Tom Jump Math  
Induction Problems And Solutions  
Solution (13) Use induction to  
prove that  $10n + 3 \times 4^{n+2} + 5$ ,  
is divisible by 9, for all natural

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Solutions n. Solution. Apart from  
the stuff given above, if you ...  
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proportion and inverse proportion.  
Constant of proportionality ...

Mathematical Induction Worksheet

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Mathematical Induction is a method or technique of proving mathematical results or theorems. The process of induction involves the following steps. Step 1 : Verify that the statement is true for  $n = 1$ , that is, verify that  $P(1)$  is true.

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This is a kind to climbing the first step of the staircase and is referred to as the initial step.

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## Math Induction Problems And Solutions - Kora

The solution in mathematical induction consists of the following steps: Write the statement to be proved as  $P(n)$  where  $n$  is the variable in the statement, and  $P$  is the statement itself. Example, if

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**Solutions**  
we are to prove that

$$1 + 2 + 3 + 4 + \dots + n = n(n+1)/2, \text{ we}$$

say let  $P(n)$  be

$1 + 2 + 3 + 4 + \dots + n = n(n+1)/2$ . Show that the basis step is true.

The Principle of Mathematical Induction with Examples and ...



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**Solutions** Problem 1 Use mathematical induction to prove that  $1 + 2 + 3 + \dots + n = n(n + 1) / 2$  for all positive integers  $n$ . Solution to Problem 1: Let the statement  $P(n)$  be  $1 + 2 + 3 + \dots + n = n(n + 1) / 2$  STEP 1: We first show that  $p(1)$  is true. Left Side = 1 Right

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Side =  $1(1 + 1) / 2 = 1$  Both  
sides of the statement are equal  
hence  $p(1)$  is true.

Mathematical Induction - Problems  
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prove  $1^2 + 2^2 + \dots + (n-1)^2 = n-1$  n: Solution. Observe that for  $k > 0$  Induction: Problems with Solutions Solution (2) By the principle of mathematical induction, prove that, for  $n$

$$1^2 + 3^2 + 5^2 + \dots + (2n-1)^2 = n(2n-1)(2n+1)/3$$

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Induction: Problems with Solutions

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**Solutions**

**Greg Gamble 1.** Prove that for any natural number  $n \geq 2$ ,  $\frac{1}{2^2} + \frac{1}{3^2} + \dots + \frac{1}{n^2} < 1$ : Hint: First prove  $\frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \dots + \frac{1}{(n-1)n} = \frac{n-1}{n}$ :  
**Solution.** Observe that for  $k > 0$   $\frac{1}{k} - \frac{1}{k+1} = \frac{k+1 - k}{k(k+1)} = \frac{1}{k(k+1)}$ : Hence  $\frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \dots + \frac{1}{(n-1)n} = \frac{1}{1} - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \dots + \frac{1}{n-1} - \frac{1}{n} = \frac{n-1}{n}$

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 $3 + 1 + 1 + \dots + 1 = n - 1$   
 $n - 1$  Now, for all  $k > 2$   $1/k^2 < 1/k$

Induction: Problems with Solutions  
 $\sum_{r=1}^n r(r+1) = \frac{1}{3} n(n+1)(n+2)$   
 $\sum_{r=1}^n r(r+1)(r+2) = \frac{1}{4} n(n+1)(n+2)(n+3)$  Can you see how the results from

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Solutions 6-8 could be used to obtain the results mentioned in 1-3. Numbers 6-8 suggest a general pattern. This too could be proved by induction.  $9^* \times n \ r=1$ .

Induction problems - Department  
of Mathematics: University ...

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Solutions Examples Question 1.

Prove using mathematical induction that for all  $n \geq 1$ ,  $1 + 4 + 7 + \dots + (3n - 2) = n(3n - 1)$ .  
2: Solution. For any integer  $n \geq 1$ , let  $P_n$  be the statement that  $1 + 4 + 7 + \dots + (3n - 2) = n(3n - 1)$ .  
2: Base Case. The statement  $P_1$  says that  $1 = 1(3 - 1)$



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2; which is true. Inductive Step.

Fix  $k \geq 1$ , and suppose that  $P_k$  holds, that is,  $1 + 4 + 7 + \dots + (3k - 2) = k(3k - 1) / 2$ :

Question 1. Prove using mathematical induction that for ...  
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later knowing the math induction  
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With Solutions Several problems  
with detailed solutions on  
mathematical induction are  
presented. The principle of  
mathematical induction is used to  
prove that a given proposition

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Solutions (formula, equality, inequality...) is true for all positive integer numbers greater than or equal to some integer  $N$ . Induction Problem Set Solutions - [gotohaggstrom.com](http://gotohaggstrom.com)

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Solutions And Solutions The solution in mathematical induction consists of the following steps: Write the statement to be proved as  $P(n)$  where  $n$  is the variable in the statement, and  $P$  is the statement itself. Example, if we are to prove that

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## Math Induction Problems And Solutions

Mathematical induction seems like a slippery trick, because for some time during the proof we assume something, build a supposition on that assumption, and then say that

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the supposition and assumption are both true. So let's use our problem with real numbers, just to test it out. Remember our property:  $n^3 + 2n$  is divisible by 3.

Mathematical Induction: Proof by Induction (Examples & Steps)

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