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$$1^3 + 2^3 + 3^3 + \dots + n^3 = \left(\frac{n(n+1)}{2}\right)^2$$
$$3: \left(1 + \frac{1}{1+2} + \frac{1}{1+2+3} + \dots + \frac{1}{1+2+3+\dots+n}\right) = \frac{2n}{n+1}$$

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have to prove $P(k+1)$ is
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Hence, by the principle of

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mathematical induction,
statement $P(n)$ is true for
all natural numbers i.e., n .

Question 6: Prove the
following by using the
principle of mathematical
induction for all $n \in \mathbb{N}$:

Answer Let the given

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statement be $P(n)$, i.e.,

$P(n)$: For $n = 1$, we have

$P(1)$: , which is true.

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This video explains the concept of principle of mathematical induction. Why it is used and how it is used.

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the principle of
mathematical induction for
all $n \in \mathbb{N}$: Question 1. $1 + 3$
 $+ 5 + \dots + (2n - 1) = n^2$
Question 2.

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Here Basis step motivate us
for mathematical induction.

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Induction: The principle of
mathematical induction is

one such tool which can be

used to prove a wide variety

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Each such statement is assumed as $P(n)$ associated with positive integer n , for which the correctness for the case $n = 1$ is examined.

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Induction is used in proving

in maths. It has 2 steps

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