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

$$\frac{1}{1.4} + \frac{1}{4.7} + \frac{1}{7.10} + \dots + \frac{1}{(3n-2)(3n+1)} = \frac{n}{3n+1}$$

Solution 16:

Let the given statement be $P(n)$, i.e.,

$$P(n): \frac{1}{1.4} + \frac{1}{4.7} + \frac{1}{7.10} + \dots + \frac{1}{(3n-2)(3n+1)} = \frac{n}{3n+1}$$

For $n = 1$, we have

$$P(1) = \frac{1}{1.4} = \frac{1}{3.1+1} = \frac{1}{4} = \frac{1}{1.4}, \text{ which is true.}$$

Let $P(k)$ be true for some positive integer k , i.e.,

$$P(k) = \frac{1}{1.4} + \frac{1}{4.7} + \frac{1}{7.10} + \dots + \frac{1}{(3k-2)(3k+1)} = \frac{k}{3k+1} \dots (1)$$

We shall now prove that $P(k+1)$ is true.

Consider

$$\begin{aligned} & \left\{ \frac{1}{1.4} + \frac{1}{4.7} + \frac{1}{7.10} + \dots + \frac{1}{(3k-2)(3k+1)} \right\} + \frac{1}{\{3(k+1)-2\}\{3(k+1)+1\}} \\ &= \frac{k}{3k+1} + \frac{1}{(3k+1)(3k+4)} \quad \text{[Using (1)]} \\ &= \frac{1}{(3k+1)} \left\{ k + \frac{1}{(3k+4)} \right\} \\ &= \frac{1}{(3k+1)} \left\{ \frac{k(3k+4)+1}{(3k+4)} \right\} \\ &= \frac{1}{(3k+1)} \left\{ \frac{3k^2+4k+1}{(3k+4)} \right\} \\ &= \frac{1}{(3k+1)} \left\{ \frac{3k^2+3k+k+1}{(3k+4)} \right\} \\ &= \frac{(3k+1)(k+1)}{(3k+1)(3k+4)} \\ &= \frac{(k+1)}{3(k+1)+1} \end{aligned}$$

Thus, $P(k+1)$ is true whenever $P(k)$ is true.

Hence, by the principle of mathematical induction, statement $P(n)$ is true for all natural numbers i.e., \mathbb{N} .

Question 17:

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



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