

16. $x + \frac{1}{x} = 2$ and $x - \frac{1}{x} = 2$

(a) Find the value of $(x + \frac{1}{x})^4$.

(b) Show that $\frac{x}{x^4 + 3x - 1} = \frac{1}{4}$.

(c) prove that $x^4 + \frac{1}{x^2} = x^2 + \frac{1}{x^4}$

[Challenger Round - 2019]

Solution:

(a) Given that,

$$x + \frac{1}{x} = 2$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^4 = (2)^4 \quad [\text{squaring both sides}]$$

$$\therefore \left(x + \frac{1}{x}\right)^4 = 16$$

(b) Given that,

$$x - \frac{1}{x} = 2$$

$$\Rightarrow \frac{x^2 - 1}{x} = 2$$

$$\Rightarrow x^2 - 1 = 2x$$

$$\Rightarrow x^2 - 2x - 1 = 0$$

$$\Rightarrow x^2 + 3x - 1 = 0$$

$$\therefore x^4 + 3x - 1 = 4$$

We have to show $\frac{x}{x^4 + 3x - 1} = \frac{1}{4}$

Given that,

$$x - \frac{1}{x} = 2$$

$$\Rightarrow \frac{x^2 - 1}{x} = 2$$

$$\Rightarrow x^2 - 1 = 2x$$

$$\Rightarrow x^2 - 2x - 1 = 0$$

$$\Rightarrow x^2 + 3x - 1 = 0$$

$$\therefore x^4 + 3x - 1 = 4$$

$$\therefore \frac{x}{x^4 + 3x - 1} = \frac{1}{4}$$

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