

Question 21:

If $3 \cot \theta = 2$, show that

$$\left(\frac{4 \sin \theta - 3 \cos \theta}{2 \sin \theta + 6 \cos \theta} \right) = \frac{1}{3}$$

Solution:

Given: $3 \cot \theta = 2$

or $\cot \theta = 2/3$

Where k is any positive.

By Pythagoras theorem:

$$AC^2 = AB^2 + BC^2$$

$$AC = \sqrt{13} k$$

Find $\sin \theta$ and $\cos \theta$ using their definitions:

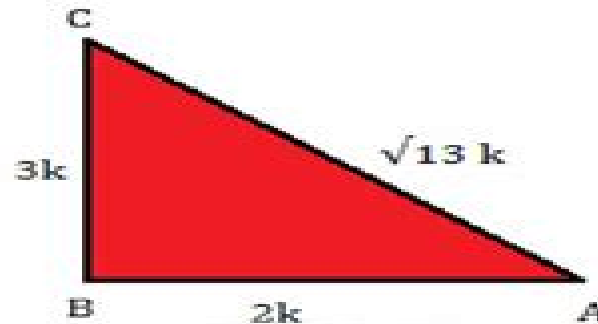
$$\sin \theta = \text{perpendicular/hypotenuse} = 3/\sqrt{13}$$

$$\cos \theta = \text{base/hypotenuse} = 2/\sqrt{13}$$

Now,

LHS:

$$\left(\frac{4 \sin \theta - 3 \cos \theta}{2 \sin \theta + 6 \cos \theta} \right)$$



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Mathematics - Class 11 - Avichal Publishing Company - Hints and Solutions M.L. Aggarwal, CBSE Mathematics for class 11 has been written by Mr M L Aggarwal Former Head of P G Department of Mathematics D A V College Jalandhar strictly according to the latest syllabus prescribed by the CBSE New Delhi The book has been thoroughly revised and a new feature Typical Illustrative Examples and Typical Problems has been added in some chapters for those students who want to attempt some more challenging problems The question of NCERT Exemplar Problems have also been included Value Based Questions have also been added at the appropriate places The book provides Hints Solutions for the exercises of each chapter at the end of the corresponding chapter **Publisher's Monthly**, 2000 **Indian National Bibliography** B. S.

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