

**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:

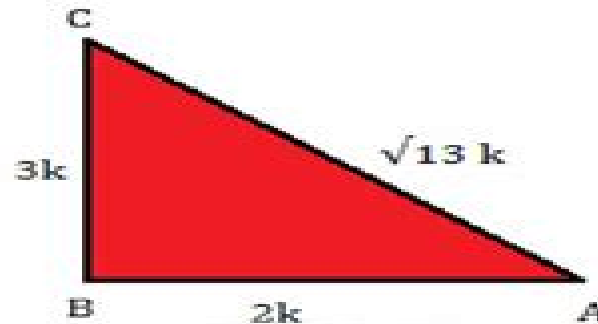
$$\sin \theta = \text{perpendicular/hypotenuse} = 3/\sqrt{13}$$

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

Now,

LHS:

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



# Rs Aggarwal Mathematics Class 10 Solutions

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