

Tips and Tricks

While using formula of $\tan^{-1}x + \tan^{-1}y$

Always take of values of x & y , if it is not given in the question. Then, solve it by making multiple cases accordingly to the question.

- In finding the solution the equation:-

Always, take care of domain of the different Inverse Trigonometric Functions.

After solving the equation, always cross-check the answer ~~the~~ by putting the values in the original question.

For eg. In ques, $\tan^{-1}2x + \tan^{-1}3x = \frac{\pi}{4}$

On solving it, you will get

$$x = \frac{1}{6} \text{ \& \ } x = -1$$

But $x = -1$, ~~is~~ is not possible.

So, only $x = \frac{1}{6}$ will be the solution.