

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

1. State whether the following statements are true or false. Justify your answer.

i. The pair of equations $3x - 4y = 1$ and $4x + 3y = 1$ has a unique solution.

Sol.

ii. For the pair of equations $4x + \lambda y = -3$ and $6x + 9y + 4 = 0$ to have no solution, the value of λ should not be 6.

Sol.

iii. If $2x + y = 23$ and $4x - y = 19$, find the values of $3y - 4x$ and $\frac{y}{x} + 3$

Sol.

iv. The angles of a cyclic quadrilateral ABCD are $\angle A = (6x + 10)^\circ$, $\angle B = (5x)^\circ$, $\angle C = (x + y)^\circ$, $\angle D = (3y - 10)^\circ$
Find x and y, and hence the value of the four angles.

Sol.
