

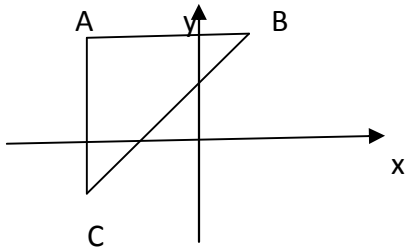
The City School
Boys Campus North Nazimabad



Topic: Inequalities

Paper 1:

Q1:



The triangle ABC has vertices $A(-3, 5)$, $B(3, 5)$ and $C(-3, -1)$. The equation of the line BC is $y = x + 2$. Write down the three inequalities which define the region inside the triangle ABC.

This region does not include points on the boundaries. [3]

Q2: Solve the inequality $a - 2 < 4(5 - a)$. [2]

Q3: a) solve the inequality $7 - y < 9$. [1]

b) Write down the least integer value of z for which $z > -4$. [1]

Q3: Given that y is an integer and $-3 < 2y - 6 < 4$, list the possible values of y . [2]

Q4: Solve $-7 \leq 3x - 4 < 2$. [2]

Q5: Find all the integers which satisfy both $2x + 7 < 3$ and $x \geq -4$. [1]

Q6: Solve the inequality $4k - 1, 14 + k$. [1]