

These are P2 questions(all variants) as the syllabus is same as P3 :)

Q1.

1 Solve the inequality $|x - 4| > |x + 1|$. [4]

Q2.

1 Solve the inequality $|x| > |3x - 2|$. [4]

Q3.

1 Solve the inequality $|2x - 7| > 3$. [3]

Q4.

1 Solve the inequality $|x - 3| > |x + 2|$. [4]

Q5.

1 Solve the inequality $|3x - 1| < 2$. [3]

Q6.

2 Solve the inequality $|3x + 2| < |x|$. [4]

Q7.

1 Solve the inequality $|2x - 3| > 5$. [3]

Q8.

3 Solve the inequality $|2x - 1| < |x + 4|$. [4]

Q9.

1 Solve the equation $|3x + 4| = |2x + 5|$. [3]

Q10.

- 1 Solve the equation $|x^3 - 14| = 13$, showing all your working. [4]

Q11.

- 1 Solve the inequality $|x + 3| < |2x + 1|$. [4]

Q12.

- 1 Solve the equation $|2^x - 7| = 1$, giving answers correct to 2 decimal places where appropriate. [5]

Q13.

- 2 Solve the inequality $|x - 8| > |2x - 4|$. [4]

Q14.

- 1 Solve the inequality $|2x - 1| < |3x|$. [4]

Q15.

- 1 Find the set of values of x satisfying the inequality $|8 - 3x| < 2$. [3]

Q16.

- 1 Solve the inequality $|x + 1| > |x|$. [3]

Q17.

- 1 Solve the inequality $(0.8)^x < 0.5$. [3]

Q18.

- 1 Solve the inequality $|2x - 1| > |x|$. [4]

Q19.

3 (i) Solve the inequality $|y - 5| < 1$. [2]

(ii) Hence solve the inequality $|3^x - 5| < 1$, giving 3 significant figures in your answer. [3]

Q20.

1 Solve the inequality $|x - 3| > |2x|$. [4]

Q21.

1 Solve the inequality $|2x + 3| < |x - 3|$. [4]

Q22.

1 Solve the inequality $|x + 3| > |2x|$. [4]

Q23.

1 Solve the inequality $|x + 1| > |x - 4|$. [3]

Q24.

1 Solve the inequality $|3x + 1| > 8$. [3]

Q25.

1 Solve the inequality $|4 - 5x| < 3$. [3]

Q26.

1 Solve the inequality $|x + 2| > \left|\frac{1}{2}x - 2\right|$. [4]

Q27.

2 Solve the inequality $|2x - 3| \leq |3x|$. [4]

Q28.

- 1 Solve the inequality $|x - 2| \geq |x + 5|$. [3]

Q29.

- 1 Solve the inequality $|2x + 1| < |2x - 5|$. [3]

Q30.

- 1 Solve the inequality $|x + 1| < |3x + 5|$. [4]

Q31.

- 1 Solve the inequality $|3x - 2| \geq |x + 4|$. [4]

P3 (variant1 and 3)**Q1.**

- 1 Solve the inequality $|x + 3a| > 2|x - 2a|$, where a is a positive constant. [4]

Q2.

- 1 Solve the inequality $|x - 3| > 2|x + 1|$. [4]

Q3.

- 1 Solve the inequality $|4x + 3| > |x|$. [4]

Q4.

- 1 Solve the inequality $2 - 3x < |x - 3|$. [4]

Q5.

- 1 Solve the inequality $2|x - 3| > |3x + 1|$. [4]

Q6.

- 1 Find the set of values of x satisfying the inequality $3|x - 1| < |2x + 1|$. [4]

Q7.

- 1 Solve the inequality $|3x - 1| < |2x + 5|$. [4]

