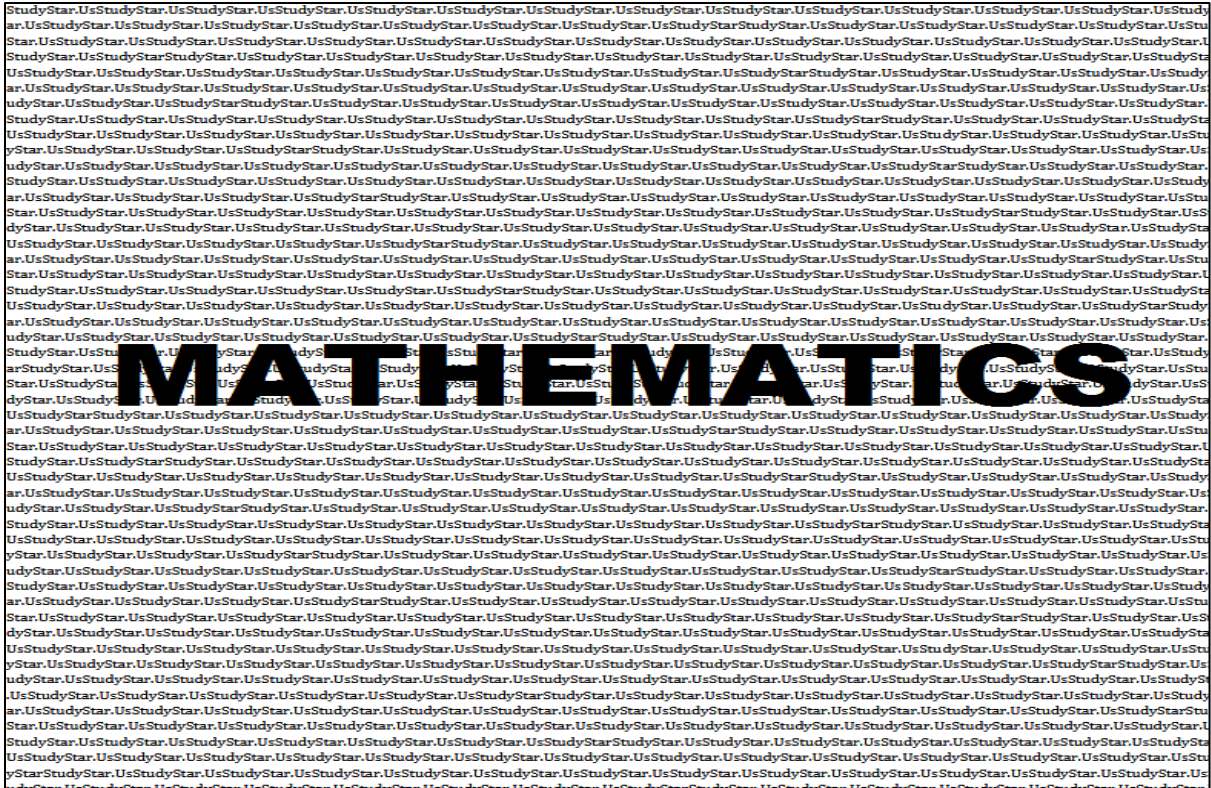




ALGEBRA

Total Marks: 25

Duration: 0 hours, 25 minutes

Instructions to test takers

1. Answer all the questions in this paper
2. No calculator may be used
3. All the answers for the questions in this paper will be found on **Study Star** (www.studystar.me)
4. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A

1. Simplify $2x - b - 3b + x$

2. Simplify $5x^2 + 2x - y + 3x + 2x^2$

3. Simplify $5z + 2y - x + 3z + x$

4. Simplify $x(2x + y) + 3x - x^2$

5. Simplify $(x + y)(2x + y)$

6. Simplify $(x + y)^2$

7. Factorise completely $3 + 9x$

8. Factorise completely $3x - 12x^3$

9. Factorise completely $2x - 2x^3$

10. Factorise completely $2ax - 6by - 4bx + 3ay$

Section B

11. Factorise completely $2x^2 - 3x + 2cx - 3c$ [3]

12. Factorise completely $5x^2 - 4x - 1$ [3]

13. Express $\frac{3}{x-y} + \frac{5}{y-x}$ as a single fraction in its lowest term [3]

14. Simplify $\frac{x+y}{2x-y} \div \frac{2x+2y}{4x-2y}$ [3]

15. Simplify $\frac{x+y}{3x-3y} \times \frac{2x-2y}{5x+5y}$ [3]



A top student's secret tool