

Paper 1

Section A

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|-----|---|-----|---|
| 1. | B | 11. | D |
| 2. | C | 12. | A |
| 3. | C | 13. | C |
| 4. | D | 14. | B |
| 5. | A | 15. | A |
| 6. | B | 16. | D |
| 7. | A | 17. | D |
| 8. | D | 18. | A |
| 9. | B | 19. | B |
| 10. | D | 20. | B |

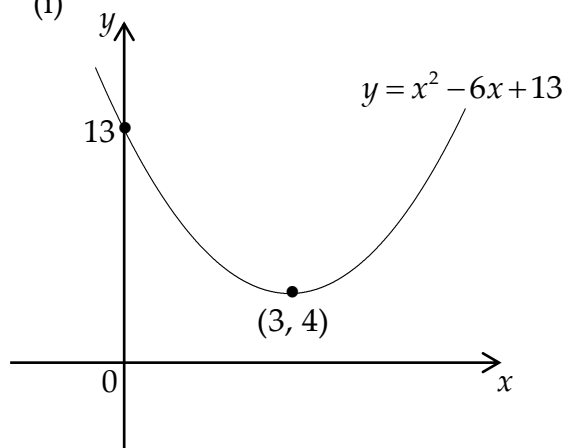
Section B

21. (a) (i) Show that $f(-1) = 0$
 (ii) $(x+1)(x+2)(2x-3)$

(b) $p = \frac{3}{2}$

22. (a) $(x-3)^2 + 4$

(b) (i) (ii) $y \geq 4$



(c) $\frac{1}{4}$

23. $a = 5, b = 3$

24. (a) $\frac{1}{2}(1 + \cos 2x)$ or $\frac{1}{2} + \frac{1}{2}\cos 2x$ (b) $2x + \sin 2x + c$

25. 8

