



## Mathematics for the IB Diploma Standard Level

By Quadling, Douglas; Neill, Hugh

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 Summary: Introduction;1. Numbers;2. Sequences;3. The binomial theorem;Review exercise 1;4. Representation of statistical data;5. Measures of location;6. Measures of spread;Review exercise 2;7. Coordinates, points and lines;8. Functions and graphs;9. Linear and quadratic functions;10. Equations and graphs;Review exercise 3;11. Differentiation;12. Tangents and normals;13. Index notation;14. Graphs of  $n$ th power functions;Review exercise 4;15. Trigonometry;16. The sine and cosine rules;17. Solving triangles;18. Radians;Review exercise 5;19. Investigating shapes of graphs;20. Second derivatives;21. Applications of differentiation;Review exercise 6;22. Probability;23. Conditional probability;Review exercise 7;24. Integration;25. Geometric sequences;26. Exponentials and logarithms;27. Exponential growth and decay;Review exercise 8;28. Circular functions;29. Composite and inverse functions;30. Transforming graphs;Review exercise 9;31. Extending differentiation and integration;32. Differentiating exponentials and logarithms;Review exercise 10;33. Probability distributions;34. The binomial distribution;35. The normal distribution;Review exercise 11;36. Relations between trigonometric functions;37. Trigonometric equations;Review exercise 12;38. The chain rule;39. Differentiating products and quotients;40. Differentiating circular functions;41. Volumes of revolution;Review exercise 13;42. Vectors;43. Scalar products of vectors;44. Vector equations of lines;Review exercise 14;45. Matrices;46. Inverse matrices;47. Determinants;Review exercise

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