

MATHEMATICS N2 CLASS EXERCISE 1

QUESTION 1

- 1.1 Solve the following equations:
- 1.1.1 $-x^2 + 3x - 2 = 0$ by factorisation (3)
- 1.1.2 $6(2 - m) - 5(4 - m) = 7$ (3)
- 1.2 Given: the formula $p = \sqrt[3]{r^2 - q^2}$
- 1.2.1 Make ' r ' the subject of the formula (3)
- 1.2.2 Calculate the value of ' r ' if $p = 4$ and $q = 6$ (1)
- 1.3 Solve for ' x ' and ' y ' in the following simultaneous equations:
- $5x = 6y + 3$ and $3y - 4x + 1 = 0$ (4)
- [14]

QUESTION 2

- 2.1 A man deducted 3 from 5 times his age and got his grandmother's age.
If his grandmother is 97 years old, how old is the man? (2)
- 2.2 Given: $4x^2 - 15x - 47 = 0$
Solve for ' x ' the equation using the quadratic formula. (3)
- 2.3 Given: $H = \frac{7,5U}{273 + V}$
- 2.3.1 Make ' V ' the subject of the formula. (3)
- 2.3.2 Find the value of ' V ' if $U = 0,5$ and $H = 0,005$ (1)
- 2.4 Given: $8p - 1 = -2q$ and $2p + 3q = 4$
Solve for ' p ' and ' q ' (4)
- [13]

TOTAL: 27 MARKS

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**Matteo Bonforte, Jean Dolbeault, Bruno
Nazaret, Nikita Simonov**



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On Non-Topological Solutions of the A_2 and B_2 Chern-Simons System Weiwei Ao, Chang-Shou Lin, Juncheng Wei, 2016-01-25 Click here to view the abstract Introduction Proof of Theorem 1.1 in the case Proof of Theorem 1.1 in the case Appendix Bibliography

Hilbert Schemes of Points and Infinite Dimensional Lie Algebras Zhenbo Qin, 2018-02-26 Hilbert schemes which parametrize subschemes in algebraic varieties have been extensively studied in algebraic geometry for the last 50 years. The most interesting class of Hilbert schemes are schemes of collections of points, zero dimensional subschemes in a smooth algebraic surface. Schemes turn out to be closely related to many areas of mathematics such as algebraic combinatorics, integrable systems, representation theory and mathematical physics among others. This book surveys recent developments of the theory of Hilbert schemes of points on complex surfaces and its interplay with infinite dimensional Lie algebras. It starts with the basics of Hilbert schemes of points and presents in detail an example of Hilbert schemes of points on the projective plane. Then the author turns to the study of cohomology of including the construction of the action of infinite dimensional Lie algebras on this cohomology, the ring structure of cohomology, equivariant cohomology of and the Gromov-Witten correspondence. The last part of the book presents results about quantum cohomology of and related questions. The book is of interest to graduate students and researchers in algebraic geometry, representation theory, combinatorics, topology, number theory and theoretical physics. Stability in Gagliardo-Nirenberg-Sobolev Inequalities: Flows, Regularity and the Entropy Method Matteo Bonforte, Jean Dolbeault, Bruno Nazaret, Nikita Simonov, 2025-05-29 View the abstract Government Reports Announcements & Index, 1980-07

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