

Algebra 2 Semester 1 Final Exam

11. Add the monomials: $(7a^2 + 4b) + (-5a^2 + 3)$
- A. $2a^2 + 7$
 - B. $-2a^2 + 7$
 - C. $2a^2 + 3$
 - D. $2a^2 + 12$
12. Subtract the monomial: $(7a^2 + 4b) - (-5a^2 + 3)$
- A. $2a^2 + 7$
 - B. $-2a^2 + 7$
 - C. $2a^2 + 3$
 - D. $2a^2 + 12$
13. Multiply the monomial: $(x^2y^3)(2x^2y^2)$
- A. $2x^4y^5$
 - B. $2x^2y^5$
 - C. $2x^4y^6$
 - D. $2x^2y^6$
14. Divide the monomial: $\frac{12x^2y^3}{3x^2y}$
- A. $-4xy^2$
 - B. $-4xy^3$
 - C. $4xy^2$
 - D. $4xy^3$
15. Simplify: $\frac{2x^2y^3 + 4x^2y^3 + 6x^2y^3}{3x^2y^3}$
- A. $\frac{2x^2y^3 + 4x^2y^3 + 6x^2y^3}{3x^2y^3}$
 - B. $\frac{2x^2y^3 + 4x^2y^3 + 6x^2y^3}{3x^2y^3} + 6$
 - C. $\frac{2x^2y^3 + 4x^2y^3 + 6x^2y^3}{3x^2y^3} + 12$
 - D. $\frac{2x^2y^3 + 4x^2y^3 + 6x^2y^3}{3x^2y^3} + 18$
16. Add the polynomials: $(2x^2y + 3x + 2) + (2x^2y + 3x)$
- A. $4x^2y + 6x + 2$
 - B. $2x^2y + 6x + 2$
 - C. $2x^2y + 3x + 4$
 - D. $2x^2y^2 + 6x + 4$

Algebra 2 My Awa

Mark Steyvers



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Quantum Systems Y. S. Kim, Y. S. (University of Maryland Kim (USA)), 1997 The purpose of the workshop is to discuss both local and global geometrical and topological effects in quantum systems in the context of the new methods of investigation The main topics are non perturbative methods in quantum theory geometrical and topological effects in quantum dynamics group theoretical and algebraic methods in the theory of quantum systems quantum systems in external fields and curved spaces new results from subnuclear physics to cosmology **Journal of Developmental Education**, 1994

Rational Homotopy Theory Yves Felix, Stephen Halperin, J.-C. Thomas, 2012-12-06 as well as by the list of open problems in the final section of this monograph The computational power of rational homotopy theory is due to the discovery by Quillen 135 and by Sullivan 144 of an explicit algebraic formulation In each case the rational homotopy type of a topological space is the same as the isomorphism class of its algebraic model and the rational homotopy type of a continuous map is the same as the algebraic homotopy class of the corresponding morphism between models These models make the rational homology and homotopy of a space transparent They also in principle always and in practice sometimes enable the calculation of other homotopy invariants such as the cup product in cohomology the Whitehead product in homotopy and rational Lusternik Schnirelmann category In its initial phase research in rational homotopy theory focused on the identification of these models These included the definition of rational homotopy invariants in terms of the homotopy Lie algebra the translation of the Whitehead product to the homotopy groups of the loop space ΩX under the isomorphism $H_1(\Omega X, \mathbb{Z}) \cong \pi_1(X)$ category and cone length Since then however work has concentrated on the properties of these invariants and has uncovered some truly remarkable and previously unsuspected phenomena For example If X is an n dimensional simply connected finite CW complex then either its rational homotopy groups vanish in degrees $2 < n < 2n$ or else they grow exponentially **Spectral Theory and Analytic Geometry over Non-Archimedean Fields** Vladimir G. Berkovich, 2012-08-02 The purpose of this book is to introduce a new notion of analytic space over a non Archimedean field Despite the total disconnectedness of the ground field these analytic spaces have the usual topological properties of a complex analytic space such as local compactness and local arcwise connectedness This makes it possible to apply the usual notions of homotopy and singular homology The book includes a homotopic characterization of the analytic spaces associated with certain classes of algebraic varieties and an interpretation of Bruhat Tits buildings in terms of these analytic spaces The author also studies the connection with the earlier notion of a rigid analytic space Geometrical considerations are used to obtain some applications and the analytic spaces are used to construct the foundations of a non Archimedean spectral theory of bounded linear operators This book requires a background at the level of basic graduate courses in algebra and topology as well as some familiarity with algebraic geometry It would be of interest to research mathematicians and graduate students working in algebraic geometry number theory and adic analysis The Imperial Encyclopaedic Dictionary Robert Hunter, 1901

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