

Name: _____ Date: _____ Class Period: _____

Algebra Final Exam STUDY GUIDE

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PART 1

1. What is the degree of the monomial? $7x^8y^6$
2. What is the degree of the polynomial? $3a^4b^3 + 9a^2b^7$
3. Write the polynomial in standard form. Then name the polynomial based on its degree and number of terms. $4x^2 + 2x^3 - 6 + 8x$
4. Simplify the sum. $(2u^3 + 6u^2 + 3) + (2u^3 - 7u + 6)$
5. Find the difference. $(-4x^2 - 3) - (3x^2 + 2x + 2)$
6. Simplify the expression $x^8 \cdot 2y^{10} \cdot 5x^3$
7. Simplify the expression $(7 \times 10^2)(7 \times 10^5)$. Write your answer in scientific notation.
8. What is the simplified form of the expression $(3k^3)^4$?
9. Write in simplified form. $\frac{c^9d^{-3}}{c^{14}d^{-16}}$
10. Simplify the expression $\left(\frac{m^{-1}m^3}{m^{-2}}\right)^{-3}$

Algebra Semester Study Guide Answers

Reza Nazari, Ava Ross



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assumption that the money supply is exogenous because the central bank uses its monetary policy to control it and the emerging IS-RT analysis under the assumption that the interest rate is the exogenous monetary policy variable set by the central bank to manipulate aggregate demand in the economy. The IS-RT analysis is important for the macro analyses of many economies yet is totally neglected in most textbooks on macroeconomics. The chapter on Paradigms in Economics introduces students to the heritage of ideas in macroeconomics and the evolution of ideas and approaches over the last two centuries. It also provides the justification for the simultaneous relevance of both Classical ideas and Keynesian ones. The two growth theory chapters go beyond the Solow growth model to cover the broad evolution of growth from Malthus's theory to the present endogenous approaches and the link between money supply, inflation, and growth over very long periods.

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