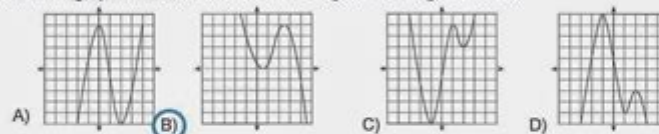


Algebra 2
2nd Semester Review

Name _____
Per. _____ Date _____

LT6.4

1. Which is a graph of an odd function with a negative leading coefficient?



2. If $P(x) \rightarrow -\infty$ as $x \rightarrow +\infty$ and $P(x) \rightarrow -\infty$ as $x \rightarrow -\infty$, which of the following is true?

- A) $P(x)$ is odd and has a negative leading coefficient. B) $P(x)$ is odd and has a positive leading coefficient.
 C) $P(x)$ is even and has a negative leading coefficient. D) $P(x)$ is even and has a positive leading coefficient.

3. Given $P(x) = -5x^4 - 3x^2 + 11x^2 + 16x - 9$, which of the following is true?

- A) $P(x)$ is odd, and as $x \rightarrow +\infty$, $P(x) \rightarrow -\infty$. B) $P(x)$ is odd, and as $x \rightarrow +\infty$, $P(x) \rightarrow +\infty$.
 C) $P(x)$ is even, and as $x \rightarrow +\infty$, $P(x) \rightarrow -\infty$. D) $P(x)$ is even, and as $x \rightarrow +\infty$, $P(x) \rightarrow +\infty$.

LT7.1

4. Which of the following functions is an example of exponential growth?

- A) $a(x) = 1.5(0.85)^x$ B) $b(x) = 4.07x^{1.3}$ C) $c(x) = 0.5(2)^x$ D) $d(x) = \log_3 x^4$

5. Which expression shows the value of a \$2500 investment after it has grown by 4.5% per year for 12 years?

- A) $2500(1.045)^{12}$ B) $2500(1.45)^{12}$ C) $2500(1.045)^{144}$ D) $2500(1.45)^{144}$

6. A balloon with a small leak loses 0.5% of its volume each day. If it originally contained 40 liters of gas, what is the volume of the gas after one week?

- A) $40(.05)^7$ B) $40(.95)^7$ C) $40 - 40(.005)^7$ D) $40(.995)^7$

7. Which of the following functions is an example of exponential decay?

- A) $a(x) = 0.5(1.2)^x$ B) $b(x) = 2.4(0.86)^x$ C) $c(x) = 0.5(x)^{2.9}$ D) $d(x) = \log_{3.5} x$

LT7.2

8. Given $f(x) = 3x^2 - 3x + 5$ and $g(x) = -7x + 4$, find $(f - g)(x)$.

- A) $3x^2 - 10x + 9$ B) $3x^2 - 10x + 1$ C) $3x^2 + 4x + 9$ D) $3x^2 + 4x + 1$

9. Given $f(x) = 2x^2 - x + 3$ and $g(x) = 2x - 4$, find $g(f(x))$.

- A) $4x^2 - 2x + 2$ B) $8x^2 - 34x + 39$ C) $4x^2 - 6x^2 + 2x - 12$ D) $4x^2 - 10x^2 + 10x - 12$

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ALGEBRA 2 FINAL EXAM REVIEW Multiple Choice Identify the choice that best completes the statement or answers the question. ____ 1. Classify $-6x^5 + 4x^3 + 3x^2 + 11$ by degree. a. quintic c. quartic b. cubic d. quadratic ____ 2. Classify $8x^4 + 7x^3 + 5x^2 + 8$ by number of terms. a. trinomial c. polynomial of 5 terms b. binomial d. polynomial of 4 terms Consider the leading term of each polynomial ...

ALGEBRA 2 FINAL EXAM REVIEW - Quia

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Algebra II Final Exam Multiple Choice Identify the choice that best completes the statement or answers the question. ____ 1. Suppose you drop a tennis ball from a height of 9 feet. After the ball hits the floor, it rebounds to 90% of its previous height. How high will the ball rebound after its third bounce? Round to the nearest tenth. a. 5.9 feet c. 6.6 feet b. 7.3 feet d. 1.1 feet ____ 2. ...

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Final Exam Honors Algebra 2 Mr. Djoko, Mr. Shea, Ms. Tee, and Mrs. Walczewski NAME ANSWER KEY Class Date June 5, 2003 1 Honors Algebra 2 2002 - 2003 Final Exam Multiple Choice Section Each problem is worth 1 point. GENERAL DIRECTIONS: Write your name on the exam. Check to see that you have all the pages before you begin. If you do not, please see the proctor. You may write on the test ...

Honors Algebra 2 2002 - 2003 Final Exam Multiple Choice ...

Algebra 2 1st Semester Final Exam Review Multiple Choice 1. Write an equation that models the data displayed in the "Interest-Free Loan" graph that is provided. A) $y = 51x + 804$ B) $y = -50x + 1800$ C) $y = 50x - 200$ D) $y = 20x + 800$ 2. Write an equation that models the data displayed in the "Interest-Free Loan" graph that is provided. A) $y = 503x + 12$ B) $y = 503x$ C) $y = 503x$...

Algebra 2 1 Semester Final Exam Review Multiple Choice

Algebra 2 Final Exam Review. Answer Section. MULTIPLE CHOICE. 1. ANS: B PTS: 1 DIF: L3 REF: 8-3 Logarithmic Functions as Inverses OBJ: 8-3.1 Writing and Evaluating Logarithmic Expressions STA: MS AII 6a | MS AII 6b. TOP: 8-3 Example 3 KEY: evaluating logarithms 2. ANS: D PTS: 1 DIF: L4 REF: 8-3 Logarithmic Functions as Inverses

Algebra 2 Final Exam Review

Algebra 2 Final Exam Review Name: Chapter 5 — Polynomials and Polynomial Functions List the degree, leading coefficient, and type. State the end behavior. 1.

$-2x^3 + 1 - 8x^2 + 5x^4$ Degree LC Types EB O Perform the indicated operation. 2. $(9x^3 - 5) + 3$. 4. $(2x+1)(x^2 - x - 3)$ Factor each polynomial completely. Look for a GCF first. 5. $x^3 - 36x$ Solve each equation by factoring. 7. $+ 13x^2 = 0$...

Algebra 2 final exam Review Answer key - Twinsburg

Algebra 2 ---- 1st Semester Final Exam Review 1st Semester Final Exam Review Chapter 3 Multiple Choice Identify the choice that best completes the statement or answers the question. ____ 1. A B C 1 Month Revenue Expenses 2 Jan 4000 22,000 3 Feb 9000 24,000 4 Mar 13,000 25,000 5 Apr 16,000 27,000

Algebra 2 ---- 1st Semester Final Exam Review

ADVANCED ALGEBRA FINAL EXAM CHAPTER 5: ALL CHAPTER 7: LESSONS 7.17.5 CHAPTER 8: LESSONS 8.18.3, 8.58.7 CHAPTER 9: LESSONS 9.19.4 CHAPTER 10: LESSONS 10.110.4 CHAPTER 11: LESSONS 11.111.3 $-2(212 - 42X + 21)$ and $x - 3$ a floor in about 2.4 h. About how long would it take Mike to tile a floor if he works by himself? 4 h Simplify each expression. Assume that all variable are ...

ADVANCED ALGEBRA FINAL EXAM

Final Exam 2007: Part 1, Part 2; Final Exam 2005 Multiple Choice: ... 3236 - CP1 Algebra 2 (former course) Final Exam 2013: part 1, part 2; Final Exam 2011: part 1, part 2; Final Exam 2009: questions; Final Exam 2007: questions; Final Exam 2005: questions, formula sheet, answers; Final Exam 2003: questions; Pre-Test from Sept. 2005: questions, answers; Pre-Test from Sept. 2004: questions ...

Final Exam Archive - Lexington High School

This includes a final exam covering Algebra 2 Semester 2 topics. The final exam consists of 22 multiple choice questions worth 22 points and 14 free response questions worth 43 points, for a total of 65 points. The multiple choice can be easily changed to free response if necessary. A second file w

Algebra 2 Final Multiple Choice Worksheets & Teaching ...

Algebra 1 Final Exam Review Multiple Choice Identify the choice that best completes the statement or answers the question. Write an equation of the line with the given slope and y-intercept 1. slope: 1, y-intercept: 10 a. $y = -43x + 10$ c. $y = x + 10$ b. $y = x - 10$ d. $y = -x + 10$ Write a linear equation in slope-intercept form to model the situation. 2. An icicle is 12 inches long and ...

Algebra 1 Final Exam Review - Elgin High School

FINAL EXAM REVIEW - MAT1033 (Intermediate Algebra) 1. Factor completely: $23 - 19 - 14a$ (a) $3 + 2$ (-7) (b) $3 - 7$ (+2) (c) $3 - 2$ (+7) (d) $3 + 7$ (-2) e ...

FINAL EXAM REVIEW MAT1033 (Intermediate Algebra)

Wolf, Matthew / Algebra 2 Trig Final Exam The Math Department does not have enough calculators for every student, therefore you may not borrow a calculator, you must bring your own. The Final Exam is a 50-question multiple choice test which must be completed with a #2 pencil. free algebra problem solvers - softmath.com

Algebra 2 Trig Final Exam Multiple Choice

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assigned every night and come to class prepared to ask about the things you could not do. GET SERIOUS. The grade you earn on this exam is worth 20% ...

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In this video, we go over one of our midterms and show you the multiple choice questions we received when we took Linear Algebra. We show you what to look fo...

Linear Algebra Final Exam Preparation - Multiple Choice ...

<p>Intermediate Algebra for College Students Final ExamA prime number is a number that can only be divided by ____ and the number itself.Solve, to 2 decimal places, the exponential equation below for x:Which of the following choices is the distance formula?Kate and Kyle are playing a game. If he selects one card at a time without replacing the cards, what is the probability that he will spell ...

intermediate algebra final exam multiple choice

Final Year Exams 2020: For the conduct of final year exams in Maharashtra, Uday Samant, State Minister for Higher and Technical Education reviewed the preparations afoot at the Dr Babasaheb Ambedkar

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