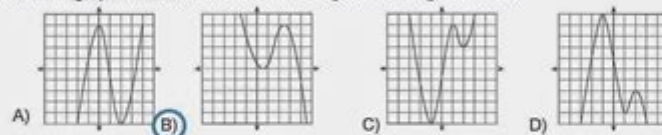


Algebra 2
2nd Semester Review

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 Review Id A Answers

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Name: _____ Class: _____ Date: _____ ID: A 1 ALGEBRA 2 FINAL EXAM REVIEW Multiple Choice Identify the choice that best completes the statement or answers the question.

ALGEBRA 2 FINAL EXAM REVIEW - Quia

Final Exam Review Packet - Algebra II • This review packet contains questions that are similar to the type of problems that you will encounter on the exam. • The in-class review is not meant to re-teach you everything from the second semester. It will be a quick, but thorough overview of the material.

Final Exam Review Packet - Algebra II

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ID: A 1 Algebra II Honors Final Exam Review Answer Section SHORT ANSWER 1. 165 2. 26 3. 484 4. 245 5. $4x^2 - 14x + 59$, R -232 6. $-3x^2 - 8x - 17$, R -36 7. $x + 4$ 8. yes: $P(x) = (x-2)(x^2 + 4x + 2)$ 9. $-4x^2 + 5x - 3$, R -6 10. $-14x^2 + 56x - 210$ 11. -9, -3, -1, 1, 3, 9 12. $3 \pm 5i$, -4 13. i 5, -i 5, -3 14. $3 - 6i$, $2 + 5i$ 15. $x^2 + 2x + 17 = 0$ 16. 1, 3 2, $\pm 5i$ 17. i 13, -i 13, -1 18. 3 ...

Algebra II Honors Final Exam Review - Lemon Bay High School

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review packet ...

Algebra 2 Final Exam Id A Answers

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

Midterm Review (Algebra 2) Name _____ Chapter 1& 2: Equations Inequalities, and Linear Functions 1. The graph of function f(x) is shown below find f(3) 2. Evaluate the expression $f(x) = 2x^2 + 5x - 1$, when $f(-2) = 3$. Solve the inequality $2(x + 4) > 5x - 14$. Then graph its solution on a number line. 4. Solve the compound inequality. Then graph its solution on a number line. a. $2x > 7$ or $3x > 12$...

Algebra 2 Midterm Review - Studylib

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Algebra 2 Final Exam - Mrs. Hall | Algebra 2

Name: _____ ID: A 3 Write each equation in standard form. 8. $y - 2 = -2(x - 9)$ a. $y = -2x + 20$ c. $2x - y = 20$ b. $2x + y = 20$ d. $2x + y = 16$ Write the equation in slope-intercept form. 9. $y + 3 = 2(x - 1)$ a. $y = 2x - 5$ c. $y = 2x + 5$ b. $y = 2x + 5$ d. $y = -2x - 5$ Write the slope-intercept form of an equation of the line that passes through the given point and is parallel to

Algebra 1 Final Exam Review - Elgin High School

Algebra 2 Final Exam Review - 2010 Semester 1. A. Accurately sketch each and write the coordinate of the locator point. 1. $y = x^2 - 3$ 2. $y = (x - 3)^2 + 2$ 3. $y = -3$ 4. $y = B$. If $f(x) = 3x - 7$ and $g(x) = x^2 + 2x - 8$: 5. Find $f(3)$ 6. $g(-2)$ 7. $g(f(x))$ 8. $g(4x)$ C. Where do the lines intersect? Solve the system of equations . 9. $y = x + 3$ 10. $4x + 10y = 20$ 11. $x + y + z = 4$ $y = -2x + 6$...

Algebra 2 Final Exam Review - 2007 Semester 1

Name: _____ Class: _____ Date: _____ ID: A 1 Algebra 1 Final Exam Review Determine the independent and dependent quantities in each scenario. 1. Phillip enjoys rock

climbing on the weekends. At some of the less challenging locations he can climb upwards of 12 feet per minute. 2. Jose prefers to walk to work when the weather is nice. He walks the 1.5 miles to work at a speed of about 3 ...

ExamView - algebra 1 district final exam review

Name: _____ Class: _____ Date: _____ ID: A 1 Geometry 2 Final Review Multiple Choice Identify the choice that best completes the statement or answers the question. 1. Find the perimeter of the triangle to the nearest whole unit. a. 18 b. 16 c. 14 d. 12 2. The three sides of a triangle are in the ratio 2:4:5. If

Geometry 2 Final Review

Honors Algebra 2 - Final Exam Review 2018 GET ORGANIZED. Successful studying begins with being organized. Gather up all of your notes from this semester. Bring this packet with you to class every day. DO NOT FALL BEHIND. Do the problems that are assigned every night and come to class prepared to ask about the things you could not do.

Honors Algebra 2 Final Exam Review 2018

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 ...

Algebra II Final Exam - Moodle

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