

**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)  $2500(1.45)^{12}H$  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)  $c(x) = 0.5(x)^{2.3}$  D)  $d(x) = \log_{0.5} x$

**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)  $4x^3 - 6x^2 + 2x - 12$  D)  $4x^3 - 10x^2 + 10x - 12$

# Algebra 2 Final Exam With Answer Key

**RD Boyd**



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Tony Hopper,2025-07-08 Tony Hopper started fiddlin at age sixty two something he knew his great grandfather was good at back in the hills of West Tennessee He was so awestruck with the violin that he continued weekly violin lessons for over three years Then someone told him he should audition as a violinist for the Montgomery Alabama Symphony Orchestra He ended up playing violin with orchestra for more than twelve years and in this memoir he looks back at his musical exploits which started when he took up the trombone for his junior high school band Along the way he highlights family members who were passionate about music including three aunts who had their own live daily radio program his great grandfather John Will J W Dyer who was a businessman farmer court official musician and fiddler and a great great grandfather who was a bugler in the Union Army While conducting research for this book the author also discovered that his great grandfather J W Dyer and his four sons collaborated with another family on a brass band and that family has risen to the apex of the classical music world If you ve ever longed to learn to play a musical instrument or want to know more about the musical history of the South you ll enjoy *Fourth Quarter Fiddlin* Ivy+ *Admission Analytics for the Fox Parent* ,2011 Oswaal *GATE Year-wise 15 Years' Solved Papers 2010 to 2024 | Engineering Mathematics For 2025 Exam* Oswaal Editorial Board,2024-03-27 Description of the Product 100% Exam Ready With 2024 Papers All 8 Shifts Fully Solved Concept Clarity Learn key Concepts through Mind Map Explanations Extensive Practice With 1000 Questions 2 Sample Papers 100% Exam Readiness With the Latest Previous Years Trend Analysis 2017 2024 Valuable Exam Insights With Tips Tricks to ace GATE Exam in 1st attempt

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