

Algebra Semester 2 Final

Chapter 5 Test #1:

Write the polynomial function in Standard Form, classify it by degree, and determine the end behavior.

$3x - 6x^2 + 8 - 5x^4$ - ANS Standard Form: $-5x^4 - 6x^2 + 3x + 8$

Classify by Degree: Quartic

End Behavior: Down, Down

Chapter 5 Test #3

Use factoring to find the zeros of the function.

$P(x) = x^2 - 5x + 6$ - ANS $x = 2$ and $x = 3$

Chapter 5 Test #4

Use factoring to find the zeros of the function.

$P(x) = 6x^2 - 7x - 5$ - ANS $x = 5/3$ and $x = -1/2$

Chapter 5 Test #5

Divide using long division. (Show your work)

$(2x^3 + 2x^2 - 7x + 21) / (x + 3)$ - ANS $2x^2 - 4x + 5 + 6/x+3$

Chapter 5 Test #6

Divide using synthetic division. Rewrite as a polynomial with a remainder (You should get the same answer as the last problem).

$(2x^3 + 2x^2 - 7x + 21) / (x + 3)$ - ANS $2x^2 - 4x + 5 + 6/x+3$

Chapter 5 test #7

List all the possible rational roots of $P(x)$ given by the Rational Root Theorem

$3x^5 - 5x^3 + 8x^2 - x + 4$ - ANS Possible Roots:

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M Mark



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Abstract Algebra Joseph H. Silverman, 2022-03-07 This abstract algebra textbook takes an integrated approach that highlights the similarities of fundamental algebraic structures among a number of topics The book begins by introducing groups rings vector spaces and fields emphasizing examples definitions homomorphisms and proofs The goal is to explain how all of the constructions fit into an axiomatic framework and to emphasize the importance of studying those maps that preserve the underlying algebraic structure This fast paced introduction is followed by chapters in which each of the four main topics is revisited and deeper results are proven The second half of the book contains material of a more advanced nature It includes a thorough development of Galois theory a chapter on modules and short surveys of additional algebraic topics designed to whet the reader's appetite for further study This book is intended for a first introduction to abstract algebra and requires only a course in linear algebra as a prerequisite The more advanced material could be used in an introductory graduate level course

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Einstein's Wife Allen Esterson,David C. Cassidy,2020-02-25 The real life story behind Marie Benedict s The Other Einstein a fascinating profile of mathematician Mileva Einstein Mari and her contributions to her husband s scientific discoveries Albert Einstein s first wife Mileva Einstein Mari was forgotten for decades When a trove of correspondence between them beginning in their student days was discovered in 1986 her story began to be told Some of the tellers of the Mileva Story made startling claims that she was a brilliant mathematician who surpassed her husband and that she made uncredited contributions to his most celebrated papers in 1905 including his paper on special relativity This book based on extensive historical research uncovers the real Mileva Story Mileva was one of the few women of her era to pursue higher education in science she and Einstein were students together at the Zurich Polytechnic Mileva s ambitions for a science career however suffered a series of setbacks failed diploma examinations a disagreement with her doctoral dissertation adviser an out of wedlock pregnancy by Einstein She and Einstein married in 1903 and had two sons but the marriage failed So was Mileva her husband s uncredited coauthor unpaid assistant or his essential helpmeet It s tempting to believe that she was her husband s secret collaborator but the authors of Einstein s Wife look at the actual evidence and a chapter by Ruth Lewin Sime offers important historical context The story they tell is that of a brave and determined young woman who struggled against a variety of obstacles at a time when science was not very welcoming to women Given the barriers women in science still face Mileva s story remains relevant Washington Post

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