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Eduard Nussbaum

Rogawski Calculus 2nd Edition Torrent Introduction

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Different methods

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Tutorial (4 steps)

Tips

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- Counting 01:42 ...

Intro

Counting

Mental math

Speedy math

Adding letters

Triangle

Calculus

Quit or Finish

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Linear Algebra by Hefferon ?? (0:04:35) One.I.1 Solving Linear ...

Introduction to Linear Algebra by Hefferon

One.I.1 Solving Linear Systems, Part One

One.I.1 Solving Linear Systems, Part Two

One.I.2 Describing Solution Sets, Part One

One.I.2 Describing Solution Sets, Part Two

One.I.3 General = Particular + Homogeneous

One.II.1 Vectors in Space

One.II.2 Vector Length and Angle Measure

One.III.1 Gauss-Jordan Elimination

One.III.2 The Linear Combination Lemma

Two.I.1 Vector Spaces, Part One

Two.I.1 Vector Spaces, Part Two

Two.I.2 Subspaces, Part One

Two.I.2 Subspaces, Part Two

Two.II.1 Linear Independence, Part One

Two.II.1 Linear Independence, Part Two

Two.III.1 Basis, Part One

Two.III.1 Basis, Part Two

Two.III.2 Dimension

Two.III.3 Vector Spaces and Linear Systems

Three.I.1 Isomorphism, Part One
 Three.I.1 Isomorphism, Part Two
 Three.I.2 Dimension Characterizes Isomorphism
 Three.II.1 Homomorphism, Part One
 Three.II.1 Homomorphism, Part Two
 Three.II.2 Range Space and Null Space, Part One
 Three.II.2 Range Space and Null Space, Part Two.
 Three.II Extra Transformations of the Plane
 Three.III.1 Representing Linear Maps, Part One.
 Three.III.1 Representing Linear Maps, Part Two
 Three.III.2 Any Matrix Represents a Linear Map
 Three.IV.1 Sums and Scalar Products of Matrices
 Three.IV.2 Matrix Multiplication, Part One
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 Increasing and Decreasing Functions
 Maximums and minimums on graphs
 Even and Odd Functions
 Toolkit Functions
 Transformations of Functions

Piecewise Functions
Inverse Functions
Angles and Their Measures
Arclength and Areas of Sectors
Linear and Radial Speed
Right Angle Trigonometry
Sine and Cosine of Special Angles
Unit Circle Definition of Sine and Cosine
Properties of Trig Functions
Graphs of Sinusoidal Functions
Graphs of Tan, Sec, Cot, Csc
Graphs of Transformations of Tan, Sec, Cot, Csc
Inverse Trig Functions
Solving Basic Trig Equations
Solving Trig Equations that Require a Calculator
Trig Identities
Pythagorean Identities
Angle Sum and Difference Formulas
Proof of the Angle Sum Formulas
Double Angle Formulas
Half Angle Formulas
Solving Right Triangles
Law of Cosines
Law of Cosines - old version
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Ellipses
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Polar Coordinates
Parametric Equations
Difference Quotient
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Introduction
Applications Of Integration
Techniques Of Integration
Application Of Integration
Parametric And Polar
Sequence And Series
Outro
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Recap
The Shell Method To Find the Volume of the Solid
Circumference
Average Value of a Function
Integration by Parts

Evaluation Step

U Substitution

Au Substitution

Inverse Trig Substitution

All Right so You Know Right There That Is Your Answer so You Know Make Sure that You Don't Leave It I've Seen I Mean I've Done this Myself Leave It in Terms of You Rather than Convert It Back to Theta and Then 2x Okay You Need To Make Sure that You Do that or that's Going To Be some Pretty Big Points Off All Right So Yeah All Right So for Our Next Problem We Have the Integral from 0 to 1 of $X^2 + 1$ over $X^2 + 1$ Quantity Squared Times $X + 2$ Dx Now this Is Not Something That We Can Do an Easy U Substitution with It's Not an Integration by Parts It's Not a Trig Integral or Inverse Trig Substitution this My Friends Is Partial Fraction Decomposition

And $Qa + 2b + C$ Needs To Equal 1 because all of Our Coefficients Here and Our Constant Is both all of It Is 1 so that's Why Everything Is Equal to 1 So Now What We Can Do Here since We Already Have a Two Variable Equation Here We Can Use these Two Equations and Cancel Out the B's To Formulate another Equation with Just A's and C's Okay So Let's Do that if We Take this Equation and Multiply by 2 Okay We're Going To Get that We'll Get a $6a + 2b + 4c$ Is Going To Equal 2

If a Equals Negative 2 and c Equals 3 that We Can Easily Plug into One of these Equations Here To Figure Out What B Will Be Okay So Let's Do that Let's Plug into Our Bottom Equation Here We'll Get that 2 Times Negative 2 That's Negative 4 Plus 2 Times a Well Our B We Don't Know that and Our C Is Plus 3 Get that Equal to 1 So Negative 4 Plus 3 Okay That Is Negative 1 We Add that One to the Other Side We Get the To Be Equals To Divide 2 on both Sides

There You Go There's Your Answer I Believe this Was One of the Longest Problems if Not the Longest Problem That We'll Be Doing in this Video So Don't Worry Problems like this Are over So Next We Want To See Is the Function Convergent or Divergent We Have $f(x) = \frac{1}{x^3 + 1}$ Equal to the Integral from 1 to Infinity of X over $X^3 + 1$ Dx Ok so We Want To See if this Integral Is Going To Converge or Diverge Now Is this an Integral that We're Going To Easily Be Able To Do I Mean We Know that since We Have this Infinity Here We'll Have To Have a Limit as T Approaches Infinity Ok but Here's the Idea I Mean this Integral Is Going To Be Tough Ok the Center Girl I Don't Even Think Will Be Able To Do It

We Need To Figure Out When Does Cosine of Anything Equal 0 and that's Well the the Soonest Is When You Get $\frac{\pi}{2}$ Okay so You Want to $\theta = \frac{\pi}{2}$ and if You Divide by 2 on each Side You Get $\theta = \frac{\pi}{4}$ so that's Going To Be Your Next Tick Mark All Right So Here We're GonNa Write $\frac{\pi}{4}$ and Then $\frac{\pi}{2}$ and $\frac{3\pi}{4}$ and We Can Keep Going a Little Bit Here Let's Go to 2π All Right So Here We're GonNa Write $\frac{\pi}{4}$ and Then $\frac{\pi}{2}$ and $\frac{3\pi}{4}$ and We Can Keep Going a Little Bit Here Let's Go to 2π Here We Can Write $5\frac{\pi}{4}$ and Then this Will Be $3\frac{\pi}{2}$ and Then We Have $7\frac{\pi}{4}$ and 2π Okay so We Start Off at 1 We Go Down to $\frac{\pi}{4}$ We Go Over to $\frac{\pi}{2}$ up to $\frac{3\pi}{4}$ and that Further up to π and Then We're Just GonNa Repeat that Cycle We Go Down to $\frac{\pi}{4}$ We Go Over to $\frac{\pi}{2}$ up to $\frac{3\pi}{4}$ and that Further up to π and Then We're Just GonNa Repeat that Cycle Okay So Now that We Have Our Two Theta Graphed as as Cartesian Coordinates We Can Transfer that Over to a Polar Graph All Right and I Know We Were the Polar Graph We Just Have this Polar Axis Which Is the the Positive X-Axis but I'm GonNa Kind Of Just Use these Two Lines Here It's Kind Of like Guidelines

Sequences

Sequence Increasing or Decreasing

Monotonic or Is It Not Monotonic

Is the Sequence Bounded

Convergent or Divergent

Question 21

Divergence Test

Test for Divergence

Series Tests

The Integral Test

Alternating Series

Limit Comparison Test
Limit Comparison Test
Conditional Convergence
Alternating Series Test
Integral Test
Ratio Test
Root Test
Maclaurin Series
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Area Between Curves
Volumes of Solids of Revolution
Volumes Using Cross-Sections
Arclength
Work as an Integral
Average Value of a Function
Proof of the Mean Value Theorem for Integrals
Integration by Parts
Trig Identities
Proof of the Angle Sum Formulas
Integrals Involving Odd Powers of Sine and Cosine
Integrals Involving Even Powers of Sine and Cosine
Special Trig Integrals
Integration Using Trig Substitution
Integrals of Rational Functions
Improper Integrals - Type 1
Improper Integrals - Type 2
The Comparison Theorem for Integrals
Sequences - Definitions and Notation
Series Definitions
Sequences - More Definitions
Monotonic and Bounded Sequences Extra
L'Hospital's Rule
L'Hospital's Rule on Other Indeterminate Forms
Convergence of Sequences
Geometric Series
The Integral Test
Comparison Test for Series
The Limit Comparison Test
Proof of the Limit Comparison Test
Absolute Convergence
The Ratio Test
Proof of the Ratio Test
Series Convergence Test Strategy
Taylor Series Introduction
Power Series
Convergence of Power Series
Power Series Interval of Convergence Example

Proofs of Facts about Convergence of Power Series

Power Series as Functions

Representing Functions with Power Series

Using Taylor Series to find Sums of Series

Taylor Series Theory and Remainder

Parametric Equations

Slopes of Parametric Curves

Area under a Parametric Curve

Arclength of Parametric Curves

Polar Coordinates

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