Intuitive Calculus I The Two Semester Course

#Intuitive Calculus #Calculus I Course #Two Semester Calculus #Learn Calculus #Calculus Fundamentals

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performance, she proves herself as capable and intuitive as Donna. Gretchen and Donna formally meet and clash in the episode "Privilege", but soon respect and... 148 KB (22,869 words) - 15:22, 3 March 2024
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Slope of Tangent Lines
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Integration Using Trig Substitution
Integrals of Rational Functions
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Improper Integrals - Type 2
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Series Definitions
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Proof of the Limit Comparison Test
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The Ratio Test
Proof of the Ratio Test
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Taylor Series Theory and Remainder
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Interpreting Derivatives
Derivatives as Functions and Graphs of Derivatives
Proof that Differentiable Functions are Continuous
Power Rule and Other Rules for Derivatives
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Derivative of e^x
Proof of the Power Rule and Other Derivative Rules
Product Rule and Quotient Rule
Proof of Product Rule and Quotient Rule
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Proof of Trigonometric Limits and Derivatives

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More Chain Rule Examples and Justification
Justification of the Chain Rule
Implicit Differentiation
Derivatives of Exponential Functions
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Related Rates - Volume and Flow
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Finding Antiderivatives Using Initial Conditions
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in 1943 from Beverly Hills High School. He subsequently graduated with an AB from the California Institute of Technology in 1946. He then received a PhD... 34 KB (3,705 words) - 06:34, 29 September 2023
of a curve. The advent of infinitesimal calculus led to a general formula that provides closed-form solutions in some cases. Archimedes' principle States... 270 KB (31,768 words) - 20:34, 6 November 2023
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Q3.d/dx (1+cosx)/sinx
Q4.d/dx sqrt(3x+1)
Q5.d/dx sin^3(x)+sin(x^3)
Q6.d/dx 1/x^4
Q7.d/dx (1+cotx)^3
Q8.d/dx x^2(2x^3+1)^10
Q9.d/dx x/(x^2+1)^2
Q10.d/dx 20/(1+5e^-2x)
Q11.d/dx sqrt(e^x)+e^sqrt(x)
Q12.d/dx sec^3(2x)
Q13.d/dx 1/2 (secx)(tanx) + 1/2 ln(secx + tanx)
Q14.d/dx (xe^x)/(1+e^x)
Q15.d/dx (e^4x)(cos(x/2))
Q16.d/dx 1/4th root(x^3 - 2)
Q17.d/dx arctan(sqrt(x^2-1))
Q18.d/dx (lnx)/x^3
Q19.d/dx x^x
Q20.dy/dx for x^3+y^3=6xy
Q21.dy/dx for ysiny = xsinx
Q22.dy/dx for ln(x/y) = e^(xy^3)
Q23.dy/dx for x=sec(y)
Q24.dy/dx for (x-y)^2 = sinx + siny
Q25.dy/dx for x^y = y^x
Q26.dy/dx for arctan(x^2y) = x+y^3
Q27.dy/dx for x^2/(x^2-y^2) = 3y
Q28.dy/dx for e^(x/y) = x + y^2
Q29.dy/dx for (x^2 + y^2 – 1)^3 = y
Q30.d^2y/dx^2 for 9x^2 + y^2 = 9
Q31.d^2/dx^2(1/9 sec(3x))
Q32.d^2/dx^2 (x+1)/sqrt(x)
Q33.d^2/dx^2 arcsin(x^2)
Q34.d^2/dx^2 1/(1+cosx)
Q35.d^2/dx^2 (x)arctan(x)
Q36.d^2/dx^2 x^4 lnx
Q37.d^2/dx^2 e^(-x^2)
Q38.d^2/dx^2 cos(lnx)
Q39.d^2/dx^2 ln(cosx)
Q40.d/dx sqrt(1-x^2) + (x)(arcsinx)
Q41.d/dx (x)sqrt(4-x^2)
Q42.d/dx sqrt(x^2-1)/x
Q43.d/dx x/sqrt(x^2-1)
Q44.d/dx cos(arcsinx)
Q45.d/dx ln(x^2 + 3x + 5)
Q46.d/dx (arctan(4x))^2
Q47.d/dx cubert(x^2)
Q48.d/dx sin(sqrt(x) lnx)
Q49.d/dx csc(x^2)
Q50.d/dx (x^2-1)/lnx
Q51.d/dx 10^x

Q52.d/dx cubert(x+(lnx)^2)
Q53.d/dx x^(3/4) – 2x^(1/4)
Q54.d/dx log(base 2, (x sqrt(1+x^2))
Q55.d/dx (x-1)/(x^2-x+1)
Q56.d/dx 1/3 cos^3x – cosx
Q57.d/dx e^(xcosx)
Q58.d/dx (x-sqrt(x))(x+sqrt(x))
Q59.d/dx arccot(1/x)
Q60.d/dx (x)(arctanx) – ln(sqrt(x^2+1))
Q61.d/dx (x)(sqrt(1-x^2))/2 + (arcsinx)/2
Q62.d/dx (sinx-cosx)(sinx+cosx)
Q63.d/dx 4x^2(2x^3 – 5x^2)
Q64.d/dx (sqrtx)(4-x^2)
Q65.d/dx sqrt((1+x)/(1-x))
Q66.d/dx sin(sinx)
Q67.d/dx (1+e^2x)/(1-e^2x)
Q68.d/dx [x/(1+lnx)]
Q69.d/dx x^(x/lnx)
Q70.d/dx ln[sqrt((x^2-1)/(x^2+1))]
Q71.d/dx arctan(2x+3)
Q72.d/dx cot^4(2x)
Q73.d/dx (x^2)/(1+1/x)
Q74.d/dx e^(x/(1+x^2))
Q75.d/dx (arcsinx)^3
Q76.d/dx 1/2 sec^2(x) – ln(secx)
Q77.d/dx ln(ln(lnx)))
Q78.d/dx pi^3
Q79.d/dx ln[x+sqrt(1+x^2)]
Q80.d/dx arcsinh(x)
Q81.d/dx e^x sinhx
Q82.d/dx sech(1/x)
Q83.d/dx cosh(lnx))
Q84.d/dx ln(coshx)
Q85.d/dx sinhx/(1+coshx)
Q86.d/dx arctanh(cosx)
Q87.d/dx (x)(arctanhx)+ln(sqrt(1-x^2))
Q88.d/dx arcsinh(tanx)
Q89.d/dx arcsin(tanhx)
Q90.d/dx (tanhx)/(1-x^2)
Q91.d/dx x^3, definition of derivative
Q92.d/dx sqrt(3x+1), definition of derivative
Q93.d/dx 1/(2x+5), definition of derivative
Q94.d/dx 1/x^2, definition of derivative
Q95.d/dx sinx, definition of derivative
Q96.d/dx secx, definition of derivative
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