Free Calculus Study Guide

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When the Limit of the Denominator is 0
[Corequisite] Lines: Graphs and Equations
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Limits at Infinity and Graphs
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[Corequisite] Graphs of Sine and Cosine
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Derivatives and Tangent Lines
Computing Derivatives from the Definition
Interpreting Derivatives
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Proof that Differentiable Functions are Continuous
Power Rule and Other Rules for Derivatives
[Corequisite] Trig Identities
[Corequisite] Pythagorean Identities
[Corequisite] Angle Sum and Difference Formulas
[Corequisite] Double Angle Formulas
Higher Order Derivatives and Notation
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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Justification of the Chain Rule
Implicit Differentiation
Derivatives of Exponential Functions
Derivatives of Log Functions
Logarithmic Differentiation
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Inverse Trig Functions
Derivatives of Inverse Trigonometric Functions
Related Rates - Distances
Related Rates - Volume and Flow
Related Rates - Angle and Rotation
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First Derivative Test and Second Derivative Test
Extreme Value Examples
Mean Value Theorem
Proof of Mean Value Theorem
Derivatives and the Shape of the Graph
Linear Approximation
The Differential
L'Hospital's Rule
L'Hospital's Rule on Other Indeterminate Forms
Newtons Method
Antiderivatives

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Any Two Antiderivatives Differ by a Constant
Summation Notation
Approximating Area
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The Fundamental Theorem of Calculus, Part 2
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100 calculus derivatives
Q1.d/dx ax^+bx+c
Q2.d/dx sinx/(1+cosx)
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
Q97.d/dx arcsinx, definition of derivative
Q98.d/dx arctanx, definition of derivative
Q99.d/dx f(x)g(x), definition of derivative
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6..Tangent Line Equation With Implicit Differentiation
7..Limits of Trigonometric Functions
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