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Calculus Derivative Problems And Solutions

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Examples! ❖
Derivatives -
Power, Product,
Quotient and
Chain Rule -
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100 Derivatives
(in ONE take, 6
hrs 38 min) Basic
Derivative Rules -
The Shortcut

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**Using the Power
Rule Chain Rule
For Finding
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for Calculus -
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#1 Derivatives
using limit
definition -
Practice
problems!**

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Optimization

**Calculus - Fence
Problems,**

**Cylinder, Volume
of Box, Minimum
Distance \u0026**

**Norman Window
Implicit**

**Differentiation
Explained -**

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**Product Rule,
Quotient \u0026**

Chain Rule -

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(That Teachers
Probably Don't
Tell You) How to
Do Implicit
Differentiation
(NancyPi)**

Chain Rule with

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**Trig Functions
Calculus - The
basic rules for
derivatives
Derivatives...**

**How? (NancyPi)
The Chain Rule...
How? When?**

**(NancyPi) ❖
Optimization
Problem #1 ❖**

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**Derivatives Of
Trig Functions
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Logarithmic
Functions
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Theorem of
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Partial

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~~Definition of the
Derivative~~

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Logarithmic~~

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**Functions - More
Examples
Calculus**

**Derivative
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**The derivative of
a sum is the sum
of the
derivatives:**

$$\frac{d}{dx} [f(x) + g(x)] =$$

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$\frac{d}{dx}f(x) + \frac{d}{dx}g(x)$ For

example, $\frac{d}{dx}(x^2 + \cos x) = \frac{d}{dx}(x^2) + \frac{d}{dx}(\cos x) = 2x - \sin x, \dots$

**Calculating
Derivatives:**

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**Problems and
Solutions -
Matheno ...**

**For problems 1 -
12 find the**

**derivative of the
given function. f**

$$f(x) = 6x^3 - 9x + 4$$

$$f(x) = 6x^3 - 9x$$

$$+ 4 \text{ Solution } y =$$

$$2t^4 - 10t^2 + 13t \ y$$

$$= 2t^4 - 10t^2 +$$

$$13t \text{ Solution } g(z)$$

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$$= 4z^7 - 3z^{-7} + 9z$$

$g(z) = 4z^7 - 3z^{-7} + 9z$ Solution

**Calculus I -
Differentiation
Formulas
(Practice
Problems)**

**1. Find the
derivative of
 $f(x) = 6x^3 - 9x + 4$**

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. Show Solution

Problems And

Solutions

Calculus I -

Differentiation

Formulas

Derivatives and

Physics Word

Problems

Exercise 1The

equation of a

rectilinear

movement is: $d(t)$

$= t^3 - 27t$. At

Derivative
Problems And
Solutions

**what moment is
the velocity zero?
Also, what is the
acceleration at
this moment?**

**Exercise 2 What is
the speed that a
vehicle is
travelling
according to the
equation $d(t) =$
2...**

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**Derivatives and
Physics Word
Problems |**

**Superprof
Solution The
position of an
object is given by
 $s(t) = 2 + 7\cos(t)$
 $s(t) = 2 + 7 \cos$
 (t) determine all
the points where
the object is not
moving.**

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Solutions

**Calculus I -
Derivatives of
Trig Functions
(Practice
Problems)
Fractional
calculus is when
you extend the
definition of an
nth order
derivative (e.g.
first derivative,**

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Derivative

second

derivative,...) by

allowing n to

**have a fractional
value.. Back in**

1695, Leibniz

(founder of

modern Calculus)

received a letter

from

mathematician

L'Hopital, asking

about what would

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Problems And
Solutions

**happen if the “n”
in $D^n x/Dx^n$ was
1/2. Leibniz’s
response: “It will
lead to a paradox
...**

**Derivatives /
Differential
Calculus:
Definitions, Rules
...**

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Optimization
Problems for

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**Least Squares
Fitting. Use
partial**

**derivatives to
find a linear fit
for a given
experimental
data. Minimum
Distance
Problem. The
first derivative is
used to minimize
distance**

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Derivative

traveled.

***Maximum Area of
Rectangle -***

***Problem with
Solution.***

***Maximize the
area of a
rectangle***

***inscribed in a
triangle using the
first derivative.***

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**Questions and
Problems with
Solutions**

For problems 1 - 3 do each of the following. Find y' by solving the equation for y and differentiating directly. Find y' by implicit differentiation.

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Solutions

**Check that the
derivatives in (a)
and (b) are the
same.**

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Problems)
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in the period**

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problems are
sorted by topic
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solutions. The
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**their help with
checking some of
the solutions. No
project such as
this can be free
from errors and
...**

**A Collection of
Problems in Di
fferential Calculus
solve the
problem. You**

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***might wish to
delay consulting
that solution
until you have
outlined an
attack in your
own mind. You
might even
d disdain to read it
until, with pencil
and paper, you
have solved the
problem yourself***

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(or failed
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almost serve as a
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Solution

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**Determine where
in the interval
[−1,20] [− 1, 20]
the function $f(x)$
 $= \ln(x^4$
 $+20x^3+100)$ $f(x)$
 $= \ln(x^4 + 20x^3$
 $+ 100)$ is
increasing and
decreasing.**

**Calculus I - Chain
Rule (Practice**

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derivatives using**

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**the Chain Rule in
Calculus? Let's
solve some**

common

**problems step-by-
step so you can
learn to solve
them routinely
for yourself.**

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**Derivatives that
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**17-40, find the
derivative of the
given ...**

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Each limit
represents the
derivative of
some function f
at some number
 a .

Each limit
represents the
derivative of
some function f
at ...

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**Ordinary
Differential
Equations (ODEs)
contain the
ordinary
derivatives of
one or more
dependent
variables with
just one
independent
variable Example
 $m \frac{d^2x}{dt^2} + b(dx$**

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dt)² + *kx* = *Asinωt*

**Partial
Differential**

Equations (PDEs)

contain the

partial

derivatives of

one or more

dependent

variables with

two or more

independent

variables

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The Shortcut
Using the Power
Rule ~~Chain Rule~~**

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Practice
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Exponential**

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Problems,

Cylinder, Volume

of Box, Minimum

Distance \u0026amp;

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**Chain Rule -
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**Derivatives of
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Functions -

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Do Implicit
Differentiation
(NancyPi)**

**Chain Rule with
Trig Functions
Calculus - The**

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**basic rules for
derivatives**

~~Derivatives...~~

~~How? (NancyPi)~~

~~The Chain Rule...~~

~~How? When?~~

~~(NancyPi) ❖~~

~~Optimization~~

~~Problem #1 ❖~~

~~How To~~

~~Remember The~~

~~Derivatives Of~~

~~Trig Functions~~

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**Derivative of
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Functions**

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**Partial
Derivatives -
Multivariable**

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[Calculus]
Derivative

Practice 1 ||

**Lecture 21 The
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**Definition of the
Derivative**

**Derivatives of
Logarithmic**

**Functions - More
Examples**

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Problems And
Solutions**

***The derivative of
a sum is the sum
of the
derivatives:***

$$\frac{d}{dx} [f(x) + g(x)] = \frac{d}{dx} f(x) + \frac{d}{dx} g(x)$$

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Solutions

$\}g(x) \text{ \}\text{ For example, } \frac{d}{dx} \left(x^2 + \cos x \right) = \frac{d}{dx} \left(x^2 \right) + \frac{d}{dx} (\cos x) = \dots$

**Calculating
Derivatives:
Problems and
Solutions -**

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Matheno ...
For problems 1 -
12 find the

derivative of the
given function. f

$$f(x) = 6x^3 - 9x + 4$$

$$f(x) = 6x^3 - 9x + 4$$

Solution $y =$

$$2t^4 - 10t^2 + 13t$$

$$y = 2t^4 - 10t^2 +$$

$$13t$$

Solution $g(z)$

$$= 4z^7 - 3z^{-7} + 9z$$

$$g(z) = 4z^7 - 3z^{-7} + 9z$$

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- 7 + 9 z Solution

Problems And

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Calculus I -

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(Practice

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1. Find the

derivative of

$f(x) = 6x^3 - 9x + 4$

. Show Solution

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**Calculus I -
Problems And
Solutions**

**Derivatives and
Physics Word
Problems**

Exercise 1The
equation of a
rectilinear
movement is: $d(t)$
 $= t^3 - 27t$. At
what moment is
the velocity zero?

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Problems And
Solutions

Also, what is the acceleration at this moment?

Exercise 2 What is the speed that a vehicle is travelling according to the equation $d(t) = 2...$

**Derivatives and
Physics Word**

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Problems |
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Solutions

***The position of an object is given by $s(t) = 2 + 7\cos(t)$
 $s(t) = 2 + 7\cos(t)$ determine all the points where the object is not moving.***

Calculus I -
Page 57/83

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Problems And
Solutions
**Derivatives of
Trig Functions
(Practice
Problems)**

**Fractional
calculus is when
you extend the
definition of an
nth order
derivative (e.g.
first derivative,
second
derivative,...) by**

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Derivative Problems And Solutions
allowing n to have a fractional value.. Back in 1695, Leibniz (founder of modern Calculus) received a letter from mathematician L'Hopital, asking about what would happen if the “ n ” in $D^n x/Dx^n$ was

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**1/2. Leibniz's
response: "It will
lead to a paradox**

...

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...

***calculus
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problems and***

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**partial
derivatives to
find a linear fit**

**for a given
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data. Minimum
Distance**

**Problem. The
first derivative is
used to minimize
distance
traveled.**

Maximum Area of

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**Rectangle -
Problem with
Solutions.**

**Maximize the
area of a
rectangle
inscribed in a
triangle using the
first derivative.**

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For problems 1 - 3 do each of the following. Find y' by solving the equation for y and differentiating directly. Find y' by implicit differentiation. Check that the derivatives in (a)

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**and (b) are the
same.**
Problems And
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project such as
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**that solution
until you have
outlined an**

**attack in your
own mind. You
might even
d disdain to read it
until, with pencil
and paper, you
have solved the
problem yourself
(or failed
gloriously). Used**

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Solution
Determine where
in the interval***

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**$[-1, 20]$ $[-1, 20]$
the function $f(x)$
 $= \ln(x^4$
 $+ 20x^3 + 100)$ $f(x)$
 $= \ln(x^4 + 20x^3$
 $+ 100)$ is
increasing and
decreasing.**

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you working to
calculate
derivatives using
the Chain Rule in
Calculus? Let's**

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Each limit**

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**represents the
derivative of
some function f
at some number
 a .**

**Each limit
represents the
derivative of
some function f
at ...**

**Ordinary
Differential**

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Derivative
Equations (ODEs)

Problems And
Solutions
**contain the
ordinary**

**derivatives of
one or more
dependent
variables with
just one**

**independent
variable Example
 $m \frac{d^2x}{dt^2} + b\left(\frac{dx}{dt}\right)^2 + kx = A \sin \omega t$**

Partial

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*Differential
Equations (PDEs)
contain the
partial
derivatives of
one or more
dependent
variables with
two or more
independent
variables*

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