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With

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Implicit

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More Examples,
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Examples! ♦ Time
Rates

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~~differential
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~~Calculus in 10~~

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~~Product Rule,~~

~~Quotient \u0026~~

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Calculus

Solution : the
distance x

meters traveled
by a vehicle in
time t seconds.

$$x = 20 t -$$

$$(5/3)t^2. \text{ To}$$

find the speed
of the vehicle,
differentiate it

with respect to

$$"t". \quad dx/dt = 20$$

$$(1) - (5/3) (2t)$$

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Differential

$= 20 - (10 t/3)$

the speed of the
vehicle (in
km/hr) at the
instant the
brakes are
applied. $t = 0$.

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Solutions. Go

through the

given

differential

calculus

examples below:

Example 1: $f(x)$

$= 3x^2 - 2x + 1$.

Solution: Given,

$f(x) = 3x$

$- 2x + 1$.

Differentiating

both sides, we

get, $f'(x) = 6x$

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Calculus
Problems With
Solution

Example 2: where $f'(x)$

is the derivative of
 $f(x)$. Example 2:

$$f(x) = x^3.$$

Solution: We

know, $\left(\frac{d}{dx} (x^n)\right)$
 $\left(\frac{d}{dx} x\right)$

$$= n x^{n-1}$$

Differential

Calculus

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(Calculus and
Examples)

Section 3-3 :

Differentiation

Formulas. For

problems 1 – 12

find the

derivative of

the given

function. $f(x)$

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

$= 6x^3 - 9x + 4$

Solution. y

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

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Differential

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

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

$$g'(z) = 4z^6 - 3z^{-8} + 9$$

Solution. $h(y) = y^{-4} - 9y^{-3} + 8y^{-2}$

$$h'(y) = -4y^{-5} - 27y^{-4} - 16y^{-3}$$

$$= -\frac{4}{y^5} - \frac{27}{y^4} - \frac{16}{y^3}$$

Solution. $y = \sqrt{x} + 8 - 3\sqrt{x} - 2 - 4\sqrt{x}$

$$= x + 8 - 3x - 2 - 4x$$

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$2 = 1 \cdot 1 + 2 \cdot 0$

$= 1 = 1.$

Therefore, the
given boundary

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Calculus possess
solution and it
particular.

solution is =

\sin . (b) Since

every solution

of differential

equation $2 \cdot 2 +$

$= 0$ may be

written...

(PDF) PROBLEM

SET & SOLUTIONS:

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DIFFERENTIAL

EQUATION

Section 4-12 :

Differentials.

For problems 1 –

3 compute the

differential of

the given

function. $f(x)$

$= x^2 - \sec(x)$ $f(x)$

$= x^2 - \sec.$

$\square. (x)$

Solution. $w =$

$e^{x^4 - x^2 + 4x}$ $w = e$

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Differential

$x^4 - x^2 + 4x$

Solution. $h(z) =$

$\ln(2z) \sin(2z)$ h

$(z) = \ln. \square. ($

$2z) \sin.$

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(Practice
Problems)

Optimization

Problems for

Calculus 1 with

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detailed solutions.

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Linear 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

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minimize

distance

traveled.

Maximum Area of

Rectangle -

Problem with

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Maximize the

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inscribed in a

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the first

derivative. The

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solutions. The
authors are
thankful to
students Aparna
Agarwal, Nazli
Jelveh, and
Michael Wong for
their help with
checking some of
the solutions.

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No project such
as this can be
free from errors
and ...

A Collection of
Problems in Di
erential
Calculus

Identify whether
a given function
is a solution to
a differential

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Calculus or an
initial-value
problem.

Calculus is the
mathematics of
change, and
rates of change
are expressed by
derivatives.

Thus, one of the
most common ways
to use calculus
is to set up an
equation

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Calculus
Problems With
Solution

containing an unknown function $(y=f(x))$ and its derivative, known as a differential equation.

9.1: Modeling
with
Differential
Equations -
Mathematics ...

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Solve the
problem. You
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

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Calculus
Solved the
problem yourself
(or failed
gloriously).

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in Calculus can
almost serve as
a supple-

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limit of a

function as x

approaches a

fixed constant ;

limit of a

function as x

approaches plus

or minus

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Calculus ; limit
of a function
using the
precise
epsilon/delta
definition of
limit ; limit of
a function using
l'Hopital's rule
. Problems on
the continuity
of a function of
one variable

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Sum of the derivatives of each function. $\frac{d}{dx} (2x) + \frac{d}{dx} (1)$

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Calculator &

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Equations -

Calculus 1

A differential equation coupled with an initial value is called an initial-value problem. To solve an initial-value problem, first find the general solution to the differential

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Calculus, then
determine the
value of the
constant.

Initial-value
problems have
many
applications in
science and
engineering.

Basics of
Differential

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Equations –
Calculus Volume
2

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equation about
the ordinary
point $x = 0$.

find two power
series solutions
of the 8. $y'' +$
 $xy = 0$ In

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equation about
the ordinary
point $x = 0$.
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series solutions
of the 8. $y'' +$
 $xy = 0$

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Problems : given
differential... |
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Differential

equations

Finding general

solutions using

separation of

variables

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differential

equations

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(EK) , FUN-7.D.2

(EK)

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