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Solution. The function is odd so the integral on a symmetric range is zero. Problem 15.

Let $f(x) = \int_0^x \frac{1}{1+t^2} dt$. Find an equation for the tangent line at $(2; f(2))$. **Solution.** The tangent line is given by $y - f(2) = f'(2)(x - 2)$: Here $f'(2) = \frac{1}{1+2^2} = \frac{1}{5}$ and $f(2) = \int_0^2 \frac{1}{1+t^2} dt = \arctan(2)$. So the tangent line is $y - \arctan(2) = \frac{1}{5}(x - 2)$.

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$f(x) = \arctan(2) \approx 4.$

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set of practice problems for the Calculus I notes. Click on the "Solution" link for each problem to go to the page containing the solution. Note that some sections will have more problems than others and some will have more or less of a variety of problems.

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Calculus I (Practice Problems) - Lamar University

Here is a set of practice problems to accompany the Functions Section of the Review chapter of the notes for Paul Dawkins Calculus I course at Lamar University.

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Calculus I - Functions

(Practice Problems)

Solution. Determine

where, if anywhere,

the function $y = 2z^4$

$$- z^3 - 3z^2 \quad y = 2z^4$$

$$- z^3 - 3z^2 \text{ is not}$$

changing. Solution.

Find the tangent line

to $g(x) = 16x - 4x$

$g(x) = 16x - 4x$ at

$x = 4$. Solution.

Find the tangent line

to $f(x) = 7x^4 + 8x - 6$

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$+2x f(x) = 7x^4 + 8x$
 $- 6 + 2x$ at $x = -1$
 $= -1$. Solution.

Calculus I -

Differentiation

Formulas (Practice
Problems)

Calculus II Practice

Problems 1: Answers

1. or $\ln x^4$, giving the
solutions $x = 1$ or e^4 .

Find the integrals: a)

$\int \ln x^2 - 1/x \, dx$ the

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solution is $y = x^2 + 4x + 6$.

If f The Calculus of
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The application of the
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The connection

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between the definite integral and indefinite integral is given by the second part of the Fundamental

Theorem of Calculus.

If f is continuous on $[a, b]$ then . Take note that a definite

integral is a number, whereas an indefinite integral is a function.

Example: Evaluate.

Solution: Definition of

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Calculus
Indefinite Integrals

Problems With

Calculus - Integral
Solutions
Calculus (solutions,
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This section provides
the exams from the
course along with
practice exams,
review sheets, exam
solutions. Also
provided are the
problem sets assigned
for the course along

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with information on
format, rules, and a
key to notation.

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The first formula tells
us that when we have
a function e^x , our
answer for the
integral will be $e^x +$
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stands for a constant.

The middle formula
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to be familiar with these concepts for the multiple choice and free response

sections of the exam.

A calculator is not needed for any of these problems. Full solutions are given below. Calculus

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