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various types of functions
is not difficult. All you

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A formula useful for solving indefinite integrals is that the integral of x to the n th power is one divided by $n+1$ times x to the $n+1$ power, all plus a constant term.

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by step examples. Step 1:

Add one to the exponent.

Step 2: Divide by the same.

Step 3: Add C.

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EXERCISES 45 6.2 Integration

by Substitution In problems

1 through 8, find the

indicated integral. 1. $\int (2x+6)^5 dx$

Solution.

Substituting $u = 2x+6$ and $\frac{1}{2} du = dx$, you get

$\int (2x+6)^5 dx = \int u^5 \cdot \frac{1}{2} du = \frac{1}{2} \int u^5 du = \frac{1}{2} \cdot \frac{u^6}{6} + C = \frac{1}{12} (2x+6)^6 + C$

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$$\int \frac{1}{2} \int u^5 du = \frac{1}{2} \int \frac{1}{12} u^6 + C = \frac{1}{24} (2x+6)^6 + C.$$

2. $\int [(x-1)^5 + 3(x-1)^2 + 5] dx$ Solution.

Substituting $u = x-1$ and $du = dx$, you get $\int [(x-1)^5$

$$+ 3(x-1)^2 + 5] dx = \int (u^5 + 3u^2 + 5) du = \frac{1}{6} u^6 + 3 \cdot \frac{1}{3} u^3 + 5u + C$$

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Integration Exercises

Solution: Using partial
fraction, we get: $\frac{1}{x^3+1} = \frac{A}{x} + \frac{B}{x+1} + \frac{C}{x-1}$
 $\frac{1}{x^3+1} = \frac{A(x-1)(x+1)}{x(x-1)(x+1)} + \frac{B(x)(x-1)}{(x+1)(x)(x-1)} + \frac{C(x)(x+1)}{(x-1)(x)(x+1)}$

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$(A + B + C)x^2 + (C - B)x + (A - 3C)$
Thus, $A + B + C = 0$, $C - B = 0$
and $A = 1$. Therefore, $A = 1$,
and $B + C = 1$, which gives $C = 1 - B$
and $B = 1 - C$. So, $Z = \int \frac{1 - x^3}{x^2} dx = Z$.

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Mathematics Problem Set 4

Integrals Lecturer: Dawei

Fang Tutor: Ruijie Tian This

problem set includes two

parts. Part 1 includes basic

and pure math problems. It

is very important that you

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E. Solutions to 18.01

Exercises 4. Applications of
integration a/2 $y = 3x$ 4B-6

If the hypotenuse of an
isocelles right triangle has
length h , then its area is
 $h^2/4$. The endpoints of the

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Slices in the xy -plane are $y = \pm \sqrt{a^2 - x^2}$, so $h = 2\sqrt{a^2 - x^2}$. In all the volume is $\int_a^{-a} a(h^2/4)dx = \int_a^{-a} (a^2 - x^2)dx = 4a^3/3 - a^3$

~~Unit 4. Applications of
integration~~

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limit of a function as x
approaches a fixed constant
; limit of a function as x
approaches plus or minus
infinity ; limit of a
function using the precise

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epsilon/delta definition of
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Evaluate the integral $\int \frac{dx}{x}$.

$\int \frac{1}{x} dx$. Also, if $\int 2x^{-1}$

Solution: We suggest the
substitution $u = x$.

Then $du = dx$, and if $x = e^t$
then $u = e^t$. So we have $\int \frac{1}{x} dx =$

$\int \frac{1}{e^t} e^t dt = \int 1 dt = t + C = \ln x + C$

PROBLEMS FOR SECTION 7.1 $\int u du = \frac{1}{2}u^2 + C$

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~~Solutions~~ 1. Find the following
integrals by using (1): (c)
 $(x^2 + 1)^8 2x dx$ (a) $(x^4 - 2)^{10}$
 dx (b) 2.

~~Eivind Eriksen~~

Integration by substitution
is the first major

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Solutions integration technique that you will probably learn and it is the one you will use most of the time. In fact, as you learn more advanced techniques, you will still probably use this one also, in addition to the more

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~~Solutions~~ advanced techniques, even on
the same problem.

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motivated by the problem of
defining and The development

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Solutions of integral calculus arises out of the efforts of solving the problems of the, Single-variable Calculus Problems (and some solutions, Solutions to the Quizzes use the properties of definite integrals to: 1.

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I have this problem and

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Solutions. I do not understand the solution, in particular how the integral fits into the solution. Is this a form of the 2nd theorem of calculus perhaps? I am confused. if $f'(x) = \cos(x^3)$ and $f(1) = 2$ find

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have attached the problem
statement and he solution.

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solution | Physics Forums~~
Notice in this solution,
that after evaluating the

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inside integral, all the x's are gone, so that the outside integral is just a basic single variable definite integral with integrand $(18y^2)$. This is due to the fact that we have constants as the limits of

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integral.

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