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expression $1 + 2 + 2^2$

$+ 2^3 + \cdots + 2^{n-1}$;

namely, $1 + 2 + 2^2 +$

$2^3 + \cdots + 2^{n-1} = 2^n -$

1 (3) for every positive

integer n . To confirm

that our guess is

correct, let S be the

set of positive

integers n for which

Eq. (3) holds. For $n =$

1, Eq. (3) is certainly

true, whence 1

belongs to the set S .

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We assume that Eq.

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same edition). Course

Outline Number

theory is essentially

the study of the

natural numbers

1,2,3,...and their

properties. ...

Homework will be

assigned in class (due

in the HW box by 5pm

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or here. Topics
include: divisibility
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theorem, Diophantine
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homework from Dr.
Mary Flagg's Number
Theory, Math 4383 –

Section 19842, going
on now at the

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semester. This is from
homework

assignment 1. The
problems are taken
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Upon multiplying the relation $1 = 1(-3) + 4$ by 44 to get $44 = 1(-132) + 4 \cdot 44$ it follows that $j_{10} = -132$, $z_0 = 44$ serves as one solution. All other solutions of Eq. A) are of the form $x = -132 +$

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4t z = 44-t where t is an integer. Not all of the choices for t furnish solutions to the original problem.

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Burton, David M.

Elementary Number Theory. Allyn and

Bacon, 1976. ISBN:

9780205048144. This

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is quite elementary,
and explains things in
a lot more detail than
NZM, so it could be
helpful if you haven't
seen proofs before.

It's also pretty
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Hardy, G.H., and
Edward M. Wright. An
Introduction to the
Theory of Numbers.
Oxford University
Press, 1960.

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number theory,
postulates a very
precise answer to the
question of how the
prime numbers are
distributed. This
chapter lays the
foundations for our
study of the theory of
numbers by weaving

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together the themes of prime numbers, integer factorization, and the distribution of primes. In Section 1.1, we rigorously prove that the

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Number Theory 2

Divisibility Theory in
the Integers 2.4 The
Euclidean Algorithm

10 Given nonzero
integers a and b ,
establish the following
facts concerning
 $\text{lcm}(a;b)$: (a)
 $\text{gcd}(a,b)=\text{lcm}(a,b)$ if
and only if $a=b$. (b) If
 $k>0$, then $\text{lcm}(ka;kb) =$
 $k\text{lcm}(a;b)$. (c) If m is
any common multiple

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of a and b , then

$\text{lcm}(a;b) \mid m$.

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number-theoretic
algorithms

Hours: I will have four
hours of office hours
each week, they are:

Monday 2:20-4:20pm

Wednesday 1:10-2pm

Friday 10:30-11:40am

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edition, by David M.
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on this problem. ...

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homework problem. I
am self studying. You
can answer after as
many days as you
please ...

Question 9 of 9.3

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Contents Preface vii

section 1 Integers 1

2 Unique Factorization

10 3 Linear Diophantine
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5 Linear Congruences

34 6 Fermat's and Wilson's
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49 8 Perfect Numbers

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