

# 1.1 Variables in Algebra

Aug. 29, 2006

- Variable: A letter (symbol) used to represent a range of numbers.  $x, y, z, \tilde{z}, \alpha, \beta$

- Variable Expression: a math expression that consists of constants, Variables, and operations

$$\boxed{2} \times \boxed{x} + \boxed{4}$$

2 times a number  $x$  plus 4

ex 1:  $3x + 5$

3 times 'x' plus 5

- Numerical Expression: a math Expression that represents a particular Number.

ex2 |  $180 \cdot 2 = 360$

ex3 |  $40 + 25(2)$

40 plus 25 times 2

# Describe the Variable Expression

Var. Exp.	Meaning	Operation
$9y, 9 \cdot y, 9(y)$	9 times $y$	Multiply Divide
$\frac{16}{b}, 16 \div b$	16 divided by $b$	
$4 + 5$	4 plus 5	addition

ex 4)  $13 - x$

13 minus  
a number

Subtraction  
(Subt.)

O.T.L.

① pg 6-7: 1-45(o)