

Math 107

Fall 2016

Lecture 1

Math 107

M F 12:15 - 1:20 8 weeks only

Section 1823

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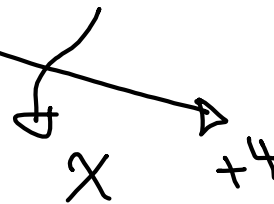
Ch. 1: Basic Translation

we use Variables such as x, n, y, \dots
for unknown quantities.

① Translate: 4 more than Some number.

Let x be the number,

more than $\rightarrow +$



② Translate: 1 less than Some number.

Let x be some number,

Less than $-$



A more than B $\rightarrow B + A$

A less than B $\rightarrow B - A$

1 is added to twice Some number

$\underbrace{\quad\quad\quad}_x$
 $2x$

$2x + 1$

Subtract 10 From half Some number.

$$\underbrace{x}_{\frac{1}{2}x}$$

$$\frac{1}{2}x - 10$$

A added to B $\rightarrow B + A$

A Subtract From B $\rightarrow B - A$

Translate: 4 times the sum of Some number
and 10. x
 10

optional $4 \cdot (\underbrace{x + 10}_{4 \cdot \text{Sum}})$

3 times the difference of 20 and Some #.
 $20 - x$

$$3 \cdot (20 - x)$$

Sum of A and B $\Rightarrow A + B$

Difference of A and B $\Rightarrow A - B$

A less B $\Rightarrow A - B$

twice Some number less -25.

$$\underbrace{\quad\quad\quad}_x \quad \downarrow$$

$$2x \quad - (-25)$$

A increased by B $\Rightarrow A + B$

A reduced by B $\Rightarrow A - B$

Square of Some number increased by -9.

$$\underbrace{\quad\quad\quad}_x \quad + (-9)$$

$$x^2 \quad + (-9)$$

Some number cubed reduced by twice the number.

$$x^3 - 2x$$

when 3 is added to 4 times Some number,
 the result is equal to 19. Translate only.

$$4x + 3 = 19$$

4 times the difference of some number and 2
 is equal to the number less 10. Translate only.

$$4(x - 2) = x - 10$$