Name:	Block:

Quiz: Review. Chapters 1 and 2

Group A.

There are <u>5 questions</u> in this quiz, each of equal value. Standard time for the test is <u>15 minutes</u>. No calculator is allowed. (accommodation excepted)

Question 1: Simplify.

$$3 + \{5x - 4[(5 - x) - (7 - 3x)]\} + 2x$$

$$3 + \left\{ 5x - 4\left[5 - x - 7 + 3x\right] \right\} + \lambda x = 3 + 3 - 3 + 4 + 11 - x$$

$$3 + \left\{ 5x + 8 - 8x \right\} + \lambda x = 3 + 3 - 3 + 4 + 11 - x$$

Question 2:

Solve for y.

$$5y - 6 = 4(3 - y)$$

$$5y - 6 = 12 - 99$$

 $9x = 18$
 $x = 2$

Question 3:

Solve for x.

Present your solution in graphic way (number line) and in set notation (" $x \in$ ").

$$3(2-x) < 12$$
 and $3(1+x) \le 12$

$$-2 < X \quad and \quad X \leq 3$$

$$x \in (-2, 3]$$
 -2 3

Question 4:

Solve for x.

Present your solution in graphic way (number line).

$$2|x-3|+3 \ge 7$$

Question 5:

Choose any number. Subtract three from the number. Double the result, then add the original number. Now divide by three. Repeat this process with other numbers, until a pattern develops. By using a variable such as x in place of your number, show that the pattern does not depend on which number you choose initially.

 $[(x-3)\cdot 2+x] = [3x-6] = [3x-2]$

=== End ====