BRONX COMMUNITY COLLEGE
of the City University of New York
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MTH05   **Quiz 3 (Sample)**

Each inequality is worth 15 points. For each one, solve it (10 points), and graph its solution set (5 points). To receive credit for the word problem, you must write an equation using information from the problem, solve the equation, and answer the question completely.

1. $x + 9 > 7$

2. $4x - 3 \leq x + 9$

3. $2 + 3x - 11 \geq 7x + 5 - 3x$

4. $5(x - 2) + 3 \leq x + 5 + 6x$

5. $\dfrac{x + 3}{5} < 1$

6. (25 points) There are three consecutive integers, and the sum of the last two is equal to three times the first integer. What are the three integers?