

BRONX COMMUNITY COLLEGE
of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MATH 05
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Quiz 5
October 10, 2008

Directions: Write your answers in the provided booklet. Be certain to indicate your final answer clearly. **YOU MUST SHOW ALL WORK TO RECEIVE CREDIT FOR YOUR ANSWERS.**

1. Solve the following inequality. Graph the solution set in the number line and write the solution set as an interval.

$$2x - 3 \geq -5(2x - 1) - 4x$$

2. At 4:30 PM two cars leave a town heading in the same direction. One car is traveling at 62 miles per hour and the other at 57 miles per hour. What time will it be when the two cars are 15 miles apart?
3. The width of a rectangle is three inches less than twice its length. Find the dimensions of the rectangle if its perimeter is 18 inches.
4. Solve $|-3x + 2| = 10$
5. Solve $|x - 5| = |2x - 1|$
6. **Extra Credit:** Solve the following inequality:

$$2x - 6 > 3(x - 5) - x + 9$$