

BRONX COMMUNITY COLLEGE
of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MATH 05
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Quiz 6
October 23, 2008

Name: _____

Directions: Write your answers in the space provided. Be certain to indicate your final answer clearly. Each question is worth 10 points. YOU MUST SHOW ALL WORK TO RECEIVE CREDIT FOR YOUR ANSWERS.

1. Evaluate $-3^2(4 - 6) + 5 - 6 \div 3 \cdot 2$

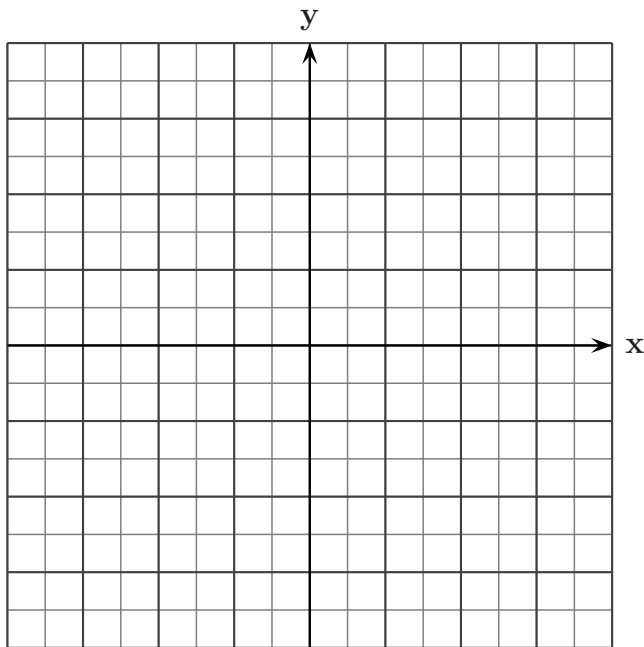
2. Evaluate $\frac{1 - xy^2}{1 + x^2y}$ for $x = -1$ and $y = 1$.

3. Solve for x : $|2x - 5| = 3$

4. The width of a rectangle is 5 inches less than three times its length. Find the dimensions of the rectangle if its perimeter is 14 inches.

5. At 3:00 pm, two buses leave a town heading in opposite directions. If one bus is traveling at 52 mph and the other at 64 mph, what time is it when they are 580 miles apart?

6. Graph the line with equation $2x - 3y = -6$ in the following grid.



7. Find the slope and the x - and y -intercepts of the line with equation $7x - 3y = 15$.

8. A line passes through the point $(-2, 3)$ and has slope $\frac{3}{2}$. Find its equation.

9. A line passes through the points $(5, 3)$ and $(5, 1)$. Find its equation.

10. Find the equation of the line that is parallel to the line with equation $-2y + 4x = -1$ and passes through the point $(-3, 1)$.