HOMEWORK 1 - MATH 111

DUE DATE: Wednesday, September 8 INSTRUCTOR: George Voutsadakis

Read each problem very carefully before starting to solve it. Each question is worth 1 point. It is necessary to show your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

- 1. Sketch the graph of 5x 3y = 12.
- 2. Find the x- and y-intercepts of the graph of 8x + 3y = 7.
- 3. Find the x- and y-intercepts of the graph of 2y + x = 7 and then sketch its graph.
- 4. Find the slope of the line passing through the points (-2,7) and (3,-1).
- 5. Find the equation of the line having slope $m = \frac{3}{5}$ and y-intercept b = -7.
- 6. Find the equation of the line that is perpendicular to $y = \frac{1}{5}x + 3$ and goes through the point (7,5).
- 7. Find the equation of the line that has slope $m = -\frac{1}{2}$ and goes through the point (2, -3).
- 8. The United States is China's largest export market. Imports from China grew from about 46 billion dollars in 1995 to 82 billion dollars in 1999. Let x=0 correspond to 1900 and estimate the amount of imports in 2002.