HOMEWORK 2 - MATH 111

DUE DATE: Friday, January 31
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. Find the point of intersection of $y = 3x + 2$ and $y = -5x + 18$.
2. The sales of a company are approximated by a linear equation. If the sales were \$ 100,000 in 1990 and \$ 400,000 in 1993, find the amount of sales in 1995.
3. Find the solutions of $(x + 5)(2x - 7) = 0$.
4. Find the solutions of $x^2 = 16$.
5. Find the solutions of $x^2 - 6x - 16 = 0$.
6. Solve the linear inequality $5x - 3 \leq 12$.
7. Solve the inequality $x + 3(x - 2) > 7(2 + 3x) - 11x$.
8. Solve the absolute value inequality $|x - \frac{2}{5}| - 1 \leq 2$.