

## HOMEWORK 2 - MATH 111

DUE DATE: Friday, September 19

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  $y = 5x - 2$  and  $y = -5x + 18$ .
2. The sales of a company are approximated by a linear equation. If the sales were \$ 90,000 in 1990 and \$ 110,000 in 1993, find the amount of sales in 1995.
3. Find the solutions of  $(x - 5)(8x - 7) = 0$ .
4. Find the solutions of  $x^2 = 19$ .
5. Find the solutions of  $x^2 - 6x - 27 = 0$ .
6. Solve the linear inequality  $7x + 4 \leq 25$ .
7. Solve the inequality  $x + 5(x - 3) > 11(2 + 5x) - 7x$ .
8. Solve the absolute value inequality  $|x - \frac{4}{7}| + 5 \leq 7$ .