ACMAT100 Spring 2025
Professor Manguba-Glover
Sections 2.5-2.6 Homework (HW 5) Name: _____

Show all work and circle/box your simplified answers. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for credit. Students who turn assignments in late (or do not attempt a problem) forfeit their ability to rewrite those problems for credit.

Due at the start of next class (unless otherwise arranged with Professor MG).

(1) Solve and write your answer in interval notation: $3x + 2 \leq 8$

(2) Solve and write your answer in interval notation: $-5(7x + 1) \leq -4(8x + 2)$

(3) Solve and write your answer in interval notation: $\frac{7}{15}x - \frac{1}{3} \geq \frac{3}{5}$

(4) Solve and write your answer in interval notation: $-16 < 5 - 3x \leq 13$

(5) Solve and write your answer in interval notation: $\frac{3}{5} < \frac{-x-5}{3} < 2$

(6) Solve and write your answer in interval notation: $-3x + 8 > -4$ and $-2x - 5 \leq 3$

(7) Solve and write your answer in interval notation: $4x + 5 \geq 5$ and $3x - 7 \leq -1$

(8) Solve and write your answer in interval notation: $-x + 3 < 0$ or $2x - 5 \geq 3$

(9) Solve and write your answer in interval notation: $|7 - 3x| = |5x + 15|$

(10) Solve and write your answer in interval notation: $|3x + 8| - 4 = -10$