

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) Find the largest solution of $x^2 + 2x = 24$
- (2) Find the smallest solution of $x^2 - 11x + 24 = 0$
- (3) Find the sum of the two solutions of $x^2 - 8x = 0$
- (4) Find the sum of the two solutions of $x^2 - 8 = 7x$
- (5) Find the largest solution of $x^2 = 22 - 9x$
- (6) Find the largest solution of $x^2 + x + 4 = 4$
- (7) Find the sum of the two solutions of $2x^2 - 12x = 80$
- (8) Find the solution of $2x^2 - 20x = -50$
- (9) Find the largest solution of $2x^2 - 17x - 9 = 0$
- (10) Find the largest solution of $2x^2 - 5x - 14 = -17x$

If you've done all problems correctly, your final answers should be the numbers 0 through 9 with no repeats.