

Student ID		

Last Name: \_\_\_\_\_

First Name: \_\_\_\_\_

Show all your work.  
If necessary, use extra sheets.

When appropriate,  
**BOX** your final answer.

M\$5  
Homework

# 9

1. a. Solve:  $m^2 + 10m = -9$

b. Solve:  $d^2 - 2d = 0$

2. a. Solve:  $x(x - 2) = 35$

b. Solve:  $4x^2 = 2x^2 + 50$

3. Solve for  $x$  to the nearest tenth:  $2x^2 - 3x = 4$

4. Solve and check.

$$-4 + 3|x + 1| = 8 - 3x$$

5. State the solution set and graph the solution set on a number line.

$$5 - |y| > 10$$

6. State the solution set and graph the solution set on a number line.

$$-2|7 - y| - 9 \leq 1$$

7. Under which operations (addition, subtraction, multiplication, and/or division) is the set of *negative even integers* closed? Justify your answer.