

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

Algebra  
Review  
Graded Homework 4

Show all of your work for every problem. The numbers in the brackets are the points that each problem is worth. Multiple Choice Problems are worth 3.  
NO WORK = ZERO CREDIT

1) [3] Simplify:  $\frac{2x-(7x+5)-8(5-9x)}{6-10(4x+5)-(9-7x)}$

2) [3] Evaluate when  $x = -5$ :  $\frac{-5x-x^2+2}{(x+3)^2}$

3) [4] Solve:  $10x - (6 + 4x) + 10 = 46 - 3(8x - 16) + 10x$

4) [3] Write an expression that would represent the following situation – A number is increased by 10, then doubled, then diminished by 6.

5) [3] Solve:  $10x - 18 - 2x = 9 + 7x - 20$

6) [2] Simplify:  $(9x^2y^8z)^3$

7) [4] You are driving to Florida. You drive 3 hours and cover 180 miles then eat lunch for 45 minutes. You then drive 4 hours and cover 220 miles before you stop 15 minutes to get gas. You then drive 2 more hours and cover 100 miles before stopping for the night. How many total hours did you drive and what was your average speed driven over the entire time period from when you left until when you stopped for the night?