

Name: _____
Date: _____
Class: _____

Algebra
Review
Graded Homework 24

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] Express in simplest radical form: $\sqrt{95256x^5y^3z^{10}}$

2) [3] Solve: $9x^2 - 8x - 17 = 0$

3) [2] What would the axis of symmetry be for the following equation:
 $y = 6x^2 - 4x + 16$?

4) [3] Create an equation for a line that would pass through (-2, 5) and (1, 14)

5) [4] If the perimeter of a square could be represented by $16x^2 - 8x + 12$ create an expression that could be used to represent its area.

6) [4] Three people are comparing their favorite numbers. Person B's favorite number is 14 less than 4 times Person A's. Person C's favorite number is 4 less than half Person B's. What is Person C's favorite number?

7) [4] Find the solution to the following system of equations:
 $8y = 112 - 6x$ and $14x = 27 + 6y$.

8) [3] Describe the transformations that would move $y = |x - 2| + 7$ to $y = 2|x + 9| - 10$.