

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

Algebra  
Review  
Graded Homework 7

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) [4] Ty has \$5 in change. He has 8 less than 3 times as many nickels as quarters. He has 3 more than half as many dimes as nickels. How much money does he have in just nickels and quarters?

2) [3] Solve:  $4x - 6(10 - 3x) = 10 - (14.5 - 8x) + 4x$

3) [4] Evaluate when  $x = -4$ :  $\frac{x^2+9x-15}{6-3x^2} + 9x^2 - (x-4)(6-x)$

4) [4] Solve and Graph:  $30 + \frac{4x-6}{2} \geq 6(2-x) - 15$

5) [3] Two rockets are launched at different targets. Rocket A is traveling 19.5m/sec and needs to go 1794m. Rocket B is traveling 1678.5m at a speed of 19.75m/sec. How many seconds does the first rocket hit its target before the 2<sup>nd</sup> rocket?

6) [4] Solve:  $15 + \frac{2(\frac{5}{4}x - 20)}{5} - \frac{8}{5}x = 3(\frac{1}{3} - \frac{4}{15}x)$

7) [2] Your square -8 in your calculator and get an answer of -64. Why is this definitely wrong? (I don't care what the right answer is, I just want to know why you should know right away this answer is wrong).

8) [3] If there are 5280 feet in a mile and 3 feet in a yard, how many miles are in 172,480 yards?