

Name: _____
Date: _____
Class: _____

Algebra
Review
Graded Homework 6

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: $\frac{4-(3+2x)-6x}{6x-2(6-x)+7}$

2) [4] Solve: $6 - 4(2x + 14) - 6x = x - (10 - 3x) + 5$

3) [4] Bill, Jon, and Amy are each painting their houses. It takes Amy 4 more than 3 times as many days as Jon. Bill takes 10 more than $\frac{1}{5}$ th the time that Amy takes. Combined it takes Bill and Jon 3 hours less than Amy. How long does it take Bill?

4) [3] Solve and graph: $10 - 6(4 + 2x) > 6 - 8x$

5) [3] Solve the following equation for h: $6b - \frac{4ah}{c} = 19$

6) [4] Evaluate when $x = -4$: $\frac{6x^2 - 4(10 - x)}{10 - 3x} - 2x^2 + 6$

7) [3] Is -2 a solution to $10 - (6 - x) > 4x + 10$?

8) [4] Solve: $10x = \frac{6(2+3x)}{7} = 20 - 2(4 - 2x)$