

Name: _____
Date: _____
Class: _____

Algebra
Review
Graded Homework 8

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

2) [3] Find the equation of a line which is parallel to $5y - 2x = 15$ that passes through $(-4, 3)$.

3) [3] Solve: $6x - 4(2 + 3x) - 10 = 40 - (16 + 7x) - 6x$

4) [4] Solve for h: $\frac{2xh}{t} - 5 + 9y = 2y + 6$

5) [4] 3 people are purchasing rope at the store for a project. Jim needs 6 less than 3 times as much as Troy. Steven needs 3 more than $\frac{1}{3}$ rd as much as Jim needs. All together they need the same amount as 10 less than twice what Jim needs. How much does Steven need?

6) [3] Graph both equations and state the point they intersect at (if they intersect).
 $7x = 3y + 23$ and $6x - 2y = 18$.

7) [3] Jon is creating a line perpendicular to the line $2y = -7x + 4$ and he is using a slope of $\frac{1}{7}$ for his new line. Is Jon correct or incorrect and explain why.

8) [2] Is the point (5, -6) on the line $2x - 3y = -8$?