

Name: _____
Date: _____
Class: _____

Algebra
Review
Graded Homework 2

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) The table below shows the year and the number of households in a building that had high-speed broadband internet access.

Number of Households	11	16	23	33	42	47
Year	2002	2003	2004	2005	2006	2007

For which interval of time was the average rate of change the *smallest*?

- (1) 2002 – 2004 (3) 2004 – 2006
(2) 2003 – 2005 (4) 2005 – 2007
- 2) Dan took 12.5 seconds to run the 100-meter dash. He calculated the time to be approximately
- (1) 0.2083 minute (3) 0.2083 hour
(2) 750 minutes (4) 0.52083 hour
- 3) The expression $3(x^2 - 1) - (x^2 - 7x + 10)$ is equivalent to
- (1) $2x^2 - 7x + 7$ (3) $2x^2 - 7x + 9$
(2) $2x^2 + 7x - 13$ (4) $2x^2 + 7x - 11$
- 4) [2] If you were dividing -19 by $-\frac{1}{2}$ would -38 be a reasonable answer? Explain.
- 5) [3] Which of these two expressions has more terms?
a) $x^2 - 4$ b) $12356a^2b^4c^8d^3$
- 6) [3] Write an expression that has 3 terms, a degree of 4, and has at least 2 negative coefficients.

7) [3] Evaluate: $3 - 2(15 + 8) \div 4 + 7$

8) [3] Sam added $5\frac{3}{4}$ and $7\frac{1}{3}$ and got an answer of $6\frac{1}{12}$. Without actually doing the addition explain why Sam is wrong and what a reasonable answer for this problem would need to be close to.