Homework: Test 1

Requirements: In order to receive credit on homework problems, you must

- Write down the original problem (unless it's an application problem...see requirements below)
- Work out the problem, clearly showing your work
- Check your answer in the back of the book or using the solutions manual in the Math Lab, as needed. (Note: also check out www.cramster.com.) If your answer is incorrect, then you have to go back to find and fix the error. DON'T ERASE your original work (unless the error is small and obvious). Rework the problem!
- **Application problems:** Any application problem you solve must have the following for full credit:
  a. The variable(s) must be defined, with units;
  for example, you would write "t = time (hours), c = drug concentration (mg/L)".
  b. Some clearly organized work must be shown that justifies your answer.
  c. The final answer must be in words, with units. Units are things like "inches" or "pounds", etc.

Determine total number of correctly done problems and put that in the last column.

Homework is due on the day of each exam. Print out this assignment sheet, fill in the scores and staple it to the top of your homework packet. Tip: You can print for free in the Math Lab!

Assign. #	**Read this section:**	**Do these problems:**	**Problems done correctly/ Total**
1	Section 1.1: Functions and Change	1.1, page 7: 1, 2, 3, 5, 7, 9, 11, 13, 14 [m = -2/5], 16 [y – 27.8 = 1.4(x – 5.2)] , 17, 19, 21, 23, 25, 26, 27, 29, 31, 33, 34, 35, 37, 41, 43, 45	/26
2	Section 1.2: Exponential Functions	1.2, page 15: 5, 6, (Po = 7.7, r = -.08), 7, 8 (Po = 15, r = - .06), 9, 10 (decay), 13, 15, 17, 27, 33, 35, 37 (challenging problem!)	/13
3	Section 1.3: New Functions from Old	1.3, page 22: (Note: all of these problems are review from precalculus so won't be covered extensively in class): 1, 5, 9, 10, 13, 15, 17, 29, 31, 33 35, 45, 47, 49, 51, 53, 55, 57	/18
4	Section 1.4: Logarithmic Functions	1.4, page 28: 1, 3, 5, 9, 13, 15, 21, 25, 32 (A, D, B, C), 33, 35, 37 (on #35 and 37, sketch graphs to illustrate your answer), 47, 49, 51	/15
5	Section 1.5: Trigonometric Functions (Note: We will review Inverse Trig Functions in Chapter 3.)	1.5, page 36: 1, 5, 9, 13, 21, 27, 29, 31, 33, 34 (*h(t), f(t), g(t)*), 35 (on #35, reason out which table matches which function using the fact that sin(t) varies between –1 and 1. DON'T use your calculator!), 41, 47, 48 (if you use 5.2 for theta, you'll get the point (2.34, -4.42)), 49	/15
6	Section 1.6: Powers, Polynomials and Rational Functions	1.6, page 44: 1, 3, 4 ($10 \cdot 2^x$ dominates), 7, 8 ($y = -\frac{1}{2}(x-2)(x+2)^2$), 11, 12 ($y = -(x+2)(x-2)^2((x-5)$, 17, 19, 23, 24, 26 (III, IV, I, II), 29	/13
7	Section 1.7: Introduction to Continuity	1.7, page 49: 1, 3, 5, 7, 9, 11, 13 (on #11 and #13, do as #12 was done in class), 17, 18, 19, 21	/11
8	Section 1.8: Limits	1.8, page 57: 1, 2 (1, dne, 1, 0), 3, 4 (dne), 5, 6 (yes, 1, -1, no), 7, 9, 11, 12 (0), 13, 16 (*f(0)* dne), 17, 18 (yes, cont.), 20 (2.718… = e), 21, 25, 27, 29abc, 31abc, 33abc, 35abc , 37 – 53 ODD	/32
9	Review for Test 1	See Review Sheet for assigned problems	/26