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Study Guide for MA180 Test I, Spring 2007

☺☺☺☺☺☺☺ *Best of Luck!* ☺☺☺☺☺☺☺

1) *Study the Practice Test I, and Chapters 1, 2 Review Packet on my website,*

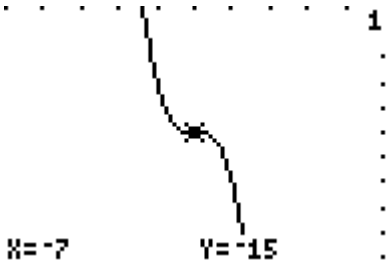
2) *Please Review the Following HW Problems, and Study the Highlighted Problems Even More.*

A.3	*17, 31, 47, 67, 71, 79, 89*	*Polynomials & Rational Expressions Obj. 3 & 4 only*
A.4	*5, 9, 23, 25*	*Polynomial Division Obj. 1 Only*
A.5	*Pencil Problems 13, 23, 33, 45, 49, 67, 85, 89, 95,99, 105, 111, 117*	*Solving Equations*
A.8	*Pencil Problems 11, 23, 31, 39, 45, 53, 73, 91, 95*	*Interval Notation; Solving Inequalities*
1.1	Pencil problems, 1-10, 39, 43, 53, 59, 63, 67, 77, 81	*Rectangular Coordinates Graphs of Equations in Two Variables*
1.2	Pencil problems, 1-10, 13, 25, 29, 35, 37, 41, 49, 55, 57, 61, 65, 79	
1.3	Pencil problems, 1-4, 9, 13, 17, 23, 27, 31, 33, 35	*Solving Equations in One Variable Using Graphing Utility*
1.5	Pencil problems, 1-4, 7, 15, 23, 29, 35,	*Circles*
2.1	Pencil problems, 1-14, 21, 27, 31, 41, 47, 55, 63, 69, 75,	*Functions*
2.2	89, Pencil problems, 1-10, 17, 19, 23, 27, 31, 37, 39, 41	*The Graph of a Function*
2.3	Pencil problems, 1-10, 25, 27, 31, 35, 49, 55, 63, 65, 67, 71, 73, 75, 77	*Properties of Functions*
2.5	Pencil problems, 1-8, 17, 19, 21, 23, 25, 37, 41, 45, 51	*Library of Functions; Piecewise – Defined Functions*
2.6	Pencil problems, 1-6, 7-34 odd, 53, 55, 67, 69, 73, 81	*Graphing Techniques: Transformations*
2.7	Pencil problems, 1, 5, 7, 9, 11, 21, 27, 31	*Mathematical Models: Constructing Functions*

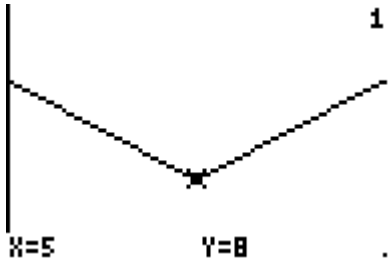
Please See Next Page

3) Write the equation for each of the following functions.

a) Stretch by a factor of 2



b) Compress by a factor of 0.2



4) What function matches the graph?

$a) f(x) = -\sqrt{x-5} + 4$

$b) f(x) = \sqrt{x-5} + 4$

$c) f(x) = \sqrt{-x+5} + 4$

$d) f(x) = \sqrt{-x-5} + 4$

$e) f(x) = \sqrt{-x-5} - 4$

$f) f(x) = -\sqrt{x-5} - 4$

$g) f(x) = \sqrt{x-5} - 4$