

Study guide for math 103 final

No.	section	Topic
1	2.1	Identify the domain and range of a function from its graph.
2	2.2	Use the algebra of functions to combine functions and determine
3	2.3	Find a line's slope and y-intercept from its equation.
4	2.4	Find slopes and equations of parallel and perpendicular lines.
5	3.2	Solve problems using systems of equations.
6	3.3	Solve systems of linear equations in three variables.
7	4.2	Solve compound inequalities involving "or."
8	4.3	Recognize absolute value inequalities with no solution or all real numbers as solutions.
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10	5.1	Use the vocabulary of polynomials.
11	5.1	Determine end behavior.
12	5.2	Use FOIL in polynomial multiplication.
13	5.4	Factor a trinomial whose leading coefficient is not 1.
14	6.1	Multiply rational expressions.
15	6.2	Add and subtract rational expressions with different denominators.
16	6.3	Simplify complex rational expressions by multiplying by one.
17	6.4	Use long division to divide by a polynomial containing more than one
18	6.5	Evaluate a polynomial function using the Remainder Theorem.
19	6.6	Solve rational equations.
20	6.7	Solve problems involving time in motion.
21	6.8	Solve inverse variation problems.
22	7.3	Multiply radicals and then simplify.
23	7.5	Rationalize denominators containing two terms.
24	7.6	Solve radical equations.
25	7.7	Divide complex numbers.
26	8.1	Solve quadratic equations by completing the square.