

Things you should know for the final

1. The properties of real numbers
2. How to simplify algebraic expressions
3. How to solve problems with percents
4. How to solve problems with ratios and/or proportions
5. How to solve linear equations in one unknown
6. How to linear inequalities
7. How to solve equations and inequalities with an absolute value
8. How to graph a line and a linear inequality
9. Find the slope intercept form of a line from the standard form
10. How to find the slope and intercept of a line from its equation
11. How to work with exponents, ie. the laws of exponents
12. How to add, subtract, multiply and divide polynomials
13. Factor polynomials using special products
14. Optional, divide polynomials using synthetic division
15. How to factor a trinomial using reverse FOIL
16. How to solve a quadratic equation using reverse FOIL and by using the quadratic formula.
(You will be given the quadratic formula on the final)
17. How to solve a polynomial equation by factoring
18. How to add, subtract, multiply and divide rational expressions
19. How to solve an equation with a rational expression
20. How to Solve two equations in two unknowns using at least one of the following methods
 - A) Substitution
 - B) Elimination
 - C) Gaussian Elimination
 - D) Cramer's Rule
21. What a function is
22. What the vertical line test is and how to use it
23. How to deal with radical expressions
24. How to solve equations with radical expressions.
25. How to add, subtract, multiply and divide complex numbers
26. How to solve quadratic equations whose solutions are complex numbers
27. How to complete the square
28. What a one-to-one function is
29. What the horizontal line test is and how to use it.
30. How to find an inverse function
31. What exponential and logarithmic function are
32. The rules of logs
33. How to find the mean, median and mode of a data set