

Topics covered for Exam One Math 1643

- 1) Addition, Subtraction and multiplication of polynomials
- 2) Squaring a binomial
- 3) Factoring
 - a) Common factors
 - b) Difference of squares
 - c) Trinomials
 - d) Cubics
 - e) Factor by grouping
 - f) Combinations of above
- 4) Addition, subtraction, multiplication and division of rational expressions
- 5) Simplifying a complex fraction
- 6) Simplifying a radical
- 7) Addition or subtraction of radicals
- 8) Rationalizing the denominator
- 9) Evaluating rational exponents
- 10) Solving a linear equation
- 11) Solving a literal equation (formula) for a specific letter
- 12) Solving a rational equation by converting it to a linear equation
- 13) Solving a quadratic equation by factoring
- 14) Completing the square
- 15) Solving a quadratic by the quadratic formula
- 16) Solving a radical equation
- 17) Solving an equation of the form: $(ax + b)^2 = c$, where c is a perfect square
- 18) Solving an equation that is quadratic in form
- 19) Solving linear inequalities [answer form in both $<>$ and interval notation]
- 20) Solving compound inequalities [answer in both $<>$ and interval notation]
- 21) Finding the interval of values for a linear expression
- 22) Solving absolute value equations
- 23) Solving absolute value inequalities [answer in both $<>$ and interval notation]
- 24) Solving a word problem involving an equation from above
- 25) Finding an absolute value inequality that satisfies a given interval