ALGEBRA FOR CALCULUS Stretch I Topics List for Exam 1

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**Section R2 and R7**

* Simplify expressions with integer exponents
* Apply the properties of exponents to simplify expressions (Write answer with positive exponents)
* Convert between exponential notation and radical notation
* Evaluate using radical notation or exponential notation
* Simplify expressions with rational exponents (Write answer with positive exponents)

**Section 4.3 IA Text (IA means Intemediate Algebra Text)**

* Find the GCF of a polynomial
* Facotr out the CGF of a polynomial
* Factor by Grouping

**Section 4.4 and 4.5 IA Text**

* Factor trinomials of the form and 

**Section 4.6 IA Text**

* Factor perfect square trinomials
* Factor difference of two squares
* Factor the sum and/or difference of two cubes
* Factor by Grouping

**Section 4.7 IA Text**

* Factor using any factoring technique from Sec 4.3 -4.6 IA Text

**Section A (2.4 from 00023 ebook)**

* Factor Quadratic forms using u-substitution and/or directly factor

**Section B (1.1 from 00024 ebook)**

* Factor the term with the lowest exponet with negative or rational exponets

**Section C (1.2 from 00024 ebook)**

* Factor binomial common factors using integer or rational exponents