Name:

Topics List for Polynomials Test (Q3 – Test 1)

- 1. Addition and subtraction of monomials (combining like terms)
- 2. Multiplication and Division properties of exponents
- 3. Raising a monomial expression to an exponent
- 4. Zero and Negative Exponents
- 5. Defining monomials, binomials, trinomials and polynomials and know the "degree"
- 6. Adding and subtracting binomials and trinomials
 - Include geometry applications (expressing perimeter as a polynomial)
- 7. Multiplying polynomials (monomial x polynomial, binomial x binomial, binomial x trinomial)
 - Include geometry applications (expressing area as a polynomial)
 - Include "shaded region" geometry problems (big shape area small shape area)
- 8. Squaring binomials... ex. $(2x + 1)^2$
- 9. Multiplying sum and difference of two terms....ex. (2x-1)(2x+1)
- 10. Factors and the GCF of two numbers/monomials
- 11. Factoring **out** the GCF of a polynomial
- 12. Factoring the difference of two perfect squares (including higher degree)
- 13. Factoring quadratic trinomials (x^2+bx+c)
 - Include geometry application express the length and width of a rectangle as factors
- 14. Factoring trinomials to a higher degree $(x^4 + bx^2 + c)$
- 15. Factoring trinomials with a coefficient greater than 1 $(ax^2 + bx + c)$

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