

# Math 1513 - College Algebra

## Discussion Board Week 1 - Due 2020.01.19

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Compute each product, be sure to simplify and combine like terms and explain which property you are using at each step.

- $(a^3 - 2a^2 + b)(a^2 + a - b^2 + ab - 10)$
- $(a^2 + 2a - b^2 + 2)(a + 3a^2 - 3ab^2 + 10b)$
- $(2a^2 + b^2 - 4a + 2b)(b^2 + b - 10a^2 + 3a + 5)$
- $(a^2 + 7b^2 + b - a - 7)(a^3 + a^2 - b^2 - 6b)$
- $(a^2 - 2a + b^2 + 5b)(3a^3 + a^2 + 5b^2 + b + 1)$
- $(4a^2 + 2a^3 + b - b^4)(a^3 + a^2 - b^4 + b)$
- $(x^2 - 2xy + 6y^2 - y + x)(x^3 + xy - y^2 + 3x)$
- $(2x^2 + 3x^2y + 6y - y^3 + x)(x^3 + xy^2 - y^2 + 3x)$
- $(x^3 + 5xy - 6x^2 - y + x^2)(x^2 - xy - x^2 - 3x + 6)$
- $(x^3 + 5x^2y - 6x^2 - y + x^2 - 2)(3x^2 + 6xy^2 + x^2y - 5y)$
- $(-x^2 + 5x^2y - 6x^3 - y^2 + x - 2)(7x^2y - 6xy^2 + xy - 5y + 2 - x)$
- $(x^2 + 5xy - 6x^3 - y^2 + x - 2)(7xy - 6x + y - 5y^2 + 13)$
- $(x^3 + 5xy - 8x - y^2 + x^2 - 2y)(x^3 - x^2y + 7xy^2 + y^2 - 4x^2 + 2)$
- $(m^3 - 2n^2 - 3mn - 7 + n)(m^2 - n^3 + 4mn + m - 6n + 3)$
- $(3m^3 - 3mn - 14n - m + 12)(m^2 - m^3 + n^2 - 4mn + m)$
- $(m^2 - 3n^3 - 3m^2n - 14nm^2 - 12)(m^2 - 3n^3 + mn^2 + m - 7n + 6)$
- $(m^2 + 3n - m^3 + n^2 + 5)(m^2 - +mn^2 - m - 7n + 6)$
- $(k^3 - 4jk + 3j + 4k - 3)(2k^2 + 4j^2k + j^2 - 4k + 5)$
- $(k^2 + 6jk + j^3 - 3j - 3)(2k^3 + 4kj + j^3 + 9k + 6)$
- $(k^3 - 7jk + j^2 - 3j + 4k)(2k^2 + 4kj + j^2 + 9j - 6)$
- $(k^2 - 7jk + j + 6jk^2 - 7k + 2)(2k^2 + 4kj + k^2j + 9j + 2)$
- $(2c^2 + cd + d^3 - 10d)(d^3 - 2d + c^2 + cd - 2)$
- $(2c^3 + 5c^2d + 2d - 5)(d^2 + 6d + c^3 + c^2d - 2cd^2)$
- $(5c^2 + 5cd^2 + 12d + 5c)(-2d + 16d^2 + 13c^3 - c^2d + 8)$
- $(7cd + 9d^2 - 5c^2d^2 + 4)(-2cd + 9d^3 + 5c^2d^2 + 7c + 9)$
- $(qr + 4q^2r^2 + 5r + 2)(qq^2r + 3qr^2 - 2)$