

## MATH [0372] – [POLYNOMIALS; MULTIPLICATION]

Instructions: expand the following expressions

1.  $2x(6x^2 - 5x + 4)$

2.  $-3a^2(a^3 - 6a^2 + 7)$

3.  $(x - 5)(x + 3)$

4.  $(x + 3)(2x - 7)$

5.  $(x - 2)(x^2 - 5x + 7)$

6.  $(5a - 2b)(a^2 - ab - b^2)$

7.  $(x^3 + 3)(x^3 - 5)$

8.  $(2x + 1)^2$

9.  $(x - 3y)(x^2 + 3xy + 9y^2)$

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1. $12x^3 - 10x^2 + 8x$	2. $-3a^5 + 18a^4 - 21a^2$	3. $x^2 - 2x - 15$
4. $2x^2 - x - 21$	5. $x^3 - 7x^2 + 17x - 14$	6. $5a^3 - 7a^2b - 3ab^2 + 4b^2$
7. $x^9 - 2x^3 - 15$	8. $4x^2 + 4x + 1$	9. $x^3 - 27y^3$

