

1. The binomials could be multiplied in a horizontal format or a vertical format. The patterns from Pascal's Triangle could also be used.
2. yes; When the sum and difference of two quantities are multiplied, the result is the difference of their squares.
3. $x^2 + x + 1$
4. $-13x^2 + 6x - 1$
5. $12x^5 + 5x^4 - 3x^3 + 6x - 4$
6. $8x^4 + 3x^3 - 3x^2 + 7x$
7. $7x^6 + 7x^5 + 8x^3 - 9x^2 + 11x - 5$
8. $20x^4 - 3x^3 - 6x - 2$
9. $-2x^3 - 14x^2 + 7x - 4$
10. $5x^4 - 12x^3 - 3x^2 + 4x + 10$
11. $5x^6 - 7x^5 + 6x^4 + 9x^3 + 7$
12. $-10x^5 + 8x^4 - 7x^3 - 20x^2 - x + 18$
13. $-x^5 + 7x^3 + 11x^2 + 10x - 4$
14. $9x^4 - 6x^3 - 9x^2 + x + 20$
15. $P = 47.7t^2 + 678.5t + 17,667.4$; The constant term represents the total number of people attending degree-granting institutions at time $t = 0$.
16. $x^2 + 8x + 2$