Name _____ Period _____ Date _____

Expand and simplify each of the following in your notebook using a method of your choice.

1. $5(x + 2)$

2. $7x(x + y)$

3. $5x(6x^2 + 10)$

4. $10y(6xy - 14)$

5. $-2x^2(-2 + 6xy)$

6. $-6x(8 - 6x^3)$

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

8. $(x - 6)(x + 9)$

9. $(x + 3)(x + 3)$

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

11. $(x + 5)(y + 10)$

12. $(x + y)(z + y)$

13. $(100 + x)(x - 100)$

14. $(x^2 + 1)(x + 9)$

15. $(x - 5)(2x + 13)$ **16.** $(3m + 6)(4m + 11)$

17. $(11s + r)(-7r + s)$ **18.** $(6 - x)(x + 100)$

19. $(3x + 10)(2x - 5)$ **20.** $(-y + 2)(-x - 3)$

21. $(x + 2)(x^2 + 5x + 6)$ **22.** $(y + 3)(y^2 - 6y + 1)$

23. $(x + 3)(x^2 + 7x + 11)$ **24.** $(y + 5)(y^2 - 7y - 10)$

25. $(2x + 1)(x^2 - 6x + 2)$ **26.** $(3y + 3)(4y^2 + 5y + 20)$

27. $(3x + 5)(5x^2 + 4x + 11)$ **28.** $(2y + 7)(8y^2 - 6y + 1)$

29. $(x^2 - 2x + 1)(x^2 + 5x + 6)$ **30.** $(x^2 - 6x + 2)(x^2 + 3x + 2)$