

SECONDARY MATH II
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REVIEW WITH POLYNOMIALS

NAME _____
DATE _____
CLASS _____

Add the polynomials.

1. $(4x^2 + 4x + 1) + (4x + 20)$

2. $(-7x^2 + 9x - 15) + (8x - 8)$

3. $(5x^3 - 6x + 10) + (x^3 + 10x - 9)$

4. $(3x^2 + 3x - 9) + (5x^2 + 7x^3 - 4)$

5. $(8x^2 + 4x + 1) + (5x^2 + 4x + 16)$

6. $(-x^2 + 5x + 9) + (-x^2 + 6x + 9)$

Subtract the polynomials.

7. $(6x^2 + 4x + 1) - (4x + 20)$

8. $(-7x^9 + 12x^6 - 12) - (5x^9 + 4x^6 - 9)$

9. $(8x^3 - 6x + 10) - (x^3 + 10x - 9)$

10. $(4x^8 + 3x - 34) - (5x^8 + 70x - 42)$

11. $(-9x^2 + 44x + 2) - (7x^2 + 10x + 99)$

12. $(-8x^2 + 15x + 28) - (-x^2 + 44x + 9)$

Find the product of each.

13. $10y(6xy - 14)$

14. $8x(x + 2y)$

15. $6x(3x^2 + 11)$

16. $-4x^2(-5 + 7xy)$

17. $7x(10 - 4x^3)$

18. $(x + 4)(y + 6)$

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

20. $(x - 5)(x + 8)$

21. $(x + 5)(x + 5)$

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

23. $(x + 8)^2$

24. $(x - 5)^2$