

Algebra Quiz

Name: _____

9.1 to 9.3

Period: _____ Date: _____

Match each polynomial with the correct name.

1. _____ $2x + 1$

a. Cubic Trinomial

2. _____ $3x^2 - 4x + 9$

b. 4th degree polynomial

3. _____ $3x^3$

c. cubic monomial

4. _____ $13x^3 - 8x^2 + 2x$

d. linear binomial

5. _____ $x^2 + 5$

e. quadratic binomial

6. _____ $13x^4 - 8x^3 + 2x^2 + 6x$

f. quadratic trinomial

Simplify. Write answer in standard form.

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

8. $(2x + 4x^2 + 5) + (3x^2 + 3 + x)$

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9. $(6x^2 - 9x + 2) - (3x^2 + 4x + 4)$

10. $(8x + 2x^2 + 3) - (4x^2 - 2 - 4x)$

Simplify by using the distributive property. Write answer in standard form.

11. $4x(2x - 5)$

12. $-3b^2(b^2 - 2b + 1)$

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Factor each polynomial. (hint: GCF)

13. $8x^2 + 4x$

14. $16x^3 + 12x^2 + 4x$

15. $8x^3 - 12x^2 - 4x$

Multiply. Write answer in standard form.

16. $(m + 3)(m + 5)$

17. $(3x + 3)(2x + 4)$

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18. $(y + 4)(y - 2)$

19. $(5a + 3)(2a - 4)$

20. $(5x - 4)(2x^2 - 3x + 2)$

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