

#1-3, Write each expression in standard form and circle the leading coefficient.

1. $7y - 5 + 3y^2$

2. $13x^2 - x^4 + 50 + x$

3. $15ac + 3a^2b^3$

4. Refer to problem #1. The number of terms is _____.

The degree is _____.

5. Refer to problem #3. The number of terms is _____.

The degree is _____.

#6-7, Write an example of each.

6. a quadratic trinomial

7. A cubic monomial

#8-21, Simplify each expression. (Pay attention to the math operation)

8. $(-4y^3 + 2z^2) + (6z^2 - y^3)$

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

10. $-3w(5w^2 + 2w)$

11. $(12m^5 + 3m^4) - (m^4 - 10m^5)$

12. $(10xy^2z^3)(-2xy^5z)$

13. $(w - 4)^2$

14. $(7x + 3)(2x - 8)$

15. $x \cdot x \cdot x + x + x$

16. $7 - 5(z^2 - z) + 2$

17. $(y + 2)(y - 2)$

18. $(y - z)^2$

19. $(m - 3)(m + 11) - (10m - 3)$

20. $(3w^2 + 7w)(w^2 + 5w - 9)$

21. $4(2x^3 - 3x + 5) - (4x^3 + 5x^2 - 11)$