

#1-6, Rewrite the polynomial in standard form, then classify each polynomial by degree AND number of terms.

1. $-3 - 60x$

2. -7

3. $13ab^3c^2$

4. $16 - 4x + 3x^2 - x^4$

5. $4a^2 - a^3b^4 + 11ab$

6. $4 - 5x + 3x^5 - 2x^2$

7. Write an example of a cubic binomial

#8-17, Perform the indicated operation with the polynomials

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

9. $(-3y + 2) + (y^2 + 8y + 2)$

10. $(-4x^3 - 2x^2 + x - 5) + (2x^3 + 3x + 4)$

11. $(z^3 + z^2 + 1) - z^2$

12. $(3x^3 - 4x^2 + 3) - (x^3 + 3x^2 - x - 4)$

13. $10 - (f^2 + 5)$

14. $(-2y^3 + 5y^2 - y + 8) + (-2y^3 + 4 + 3y)$

15. $(5w^2 + 15w - 7) - (15w + 5w^3)$

16. $(6x - 5) - (8x + 15) + (3x - 4)$

17. $-(5k^2 - 1) - (-3k^2 + 5) - (k^2 - k)$

#18-19, Fill in the underlined portion of problem.

18. $(4x^2 + x - 5) + (\underline{\hspace{2cm}}) = x^2 + 5x + 1$

19. $(3w^2 + 7w - 9) - (\underline{\hspace{2cm}}) = 12w^2 - w + 6$