

Practice

Polynomials**Find the degree of each polynomial.**

1. $5a - 2b^2 + 1$

2. $4a^3 - 2a$

3. $x + 3x^4 - 21x^2 + x^3$

4. $b + 6$

5. $24xy - xy^3 + x^2$

6. $n^3 + m^2 + n^2m^2$

7. 3^2r^4

8. $8x^2 - 2x^8$

9. $-2x^2y + 3xy^3 + x^3$

10. $10s^2t^2 + 4st^2 - 5s^3t^2$

Arrange the terms of each polynomial so that the powers of x are in ascending order.

11. $5 + 2x^2 + x^4 + 3x^3$

12. $3x + 1 + 2x^2$

13. $5x - 6 + 3x^2$

14. $9x^2 + 2 + x^3 + x$

15. $-3 + 3x^3 - x^2 + 4x$

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

17. $6x^2 + 6 + x^3 + 12x$

18. $7r^5x + 21r^4 - r^2x^2 - 15x^3$

Arrange the terms of each polynomial so that the powers of x are in descending order.

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

20. $1 - x + x^2 - x^3$

21. $x^2 + 3x^3 + 27 - x$

22. $x + 3x^3 - 17 + x^2$

23. $x - 1 + x^3$

24. $x^2 + 64 - x + 3x^3$

25. $25 - x^3 + x$

26. $5p + p^3x^2 + px + \frac{1}{3}px^3$