

Name: _____

Polynomials

Name each polynomial by number of terms and by degree.

1) $3s^2 + 1$

2) $y + y^3$

3) $x^2 + x^4 + x - 1$

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

5) $8x^3$

6) $4r + 1 + 5r$

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

7) $3 + x^4 + 2x^2$

8) $1 + x^3 + x^5 + x^2$

9) $2x^2 + 5ax + a^3$

10) $-2x^2y + 3xy^3 + x^3$

11) $17bx^2 + 11b^2x - x^3$

12) $21p^2x + 3px^3 + p^4$

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

13) $-7 + x^2 + 4x$

14) $-6x + x^5 + 4x^3 - 20$

15) $5x^2 - 3x^3 + 2x + 5$

16) $a^2x + x^3 - 3$

17) $11x^2 + 7ax^3 - 3x + 2a$

18) $4x^3y + 3xy^4 - x^2y^3 + y^4$