

Find the degree of each monomial:

1.  $10^6$

2.  $3x$

3.  $-4x^2y$

4.  $2x^3y^2z$

5.  $10y^6$

Rewrite each polynomial in standard form.

Find the **degree of each polynomial** and identify the **leading coefficient**:

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

7.  $3^2x - 5$

8.  $3.54y^2 - 6 - 4.1y$

9.  $2 + 8x - 10x^2$

10.  $x^7 - x + x^3 - x^5 + x^{10}$

11.  $3y^2 + 5y - 4 + 5y^3$

Classify each polynomial by its degree and number of terms:

12.  $6x$

13.  $35$

14.  $3x^2 - 4x - 6$

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

16.  $x^4 - 4x$

17.  $x^5 - 2x^2 + 6x - 9$

True or False:

\_\_\_\_\_ 18. A monomial is a polynomial.

\_\_\_\_\_ 19. A trinomial is a third degree polynomial

Evaluate each if  $f(x) = x^5 + 3x^2 + 4x$

20.  $f(0)$

21.  $f(-2)$

22.  $f(-1)$