

## Parts of a Polynomial

Tell how many terms in each polynomial. Underline each TERM.

Draw a box around or highlight each COEFFICIENT.

Circle the CONSTANT, if there is one.

Label the LEADING TERM, the LEADING COEFFICIENT, and the DEGREE of the polynomial.

1)  $4b^8$

2)  $-5x^2$

3)  $5x$

4)  $3x^3 + 4 - 6x - 2x^2$

5)  $-8x^4 + 8x^7 + x^8 - 4x^6 + 2x^2$

6)  $6x^7 - 5x^6 - 10x^4 - 9x^5 + 5x^3$

7)  $7x^3$

8)  $7a + 7$

9)  $8 + 4p - 5p^8 + 7p^5$

10)  $5v^8 + v^3 + 6 - 4v^7 - 7v^2$

Polynomial or not?

11)  $6a^3$

- A) polynomial  
B) not a polynomial

12)  $\frac{3}{5y^2}$

- A) polynomial  
B) not a polynomial

13)  $5x^4 - 7x$

- A) polynomial  
B) not a polynomial

14)  $3x^{-14} + 7x^2$

- A) not a polynomial  
B) polynomial

15)  $\frac{1}{5}\sqrt{y}$

- A) not a polynomial  
B) polynomial

16)  $\frac{1}{2}b^2$

- A) not a polynomial  
B) polynomial

17)  $0.234z^{99}$

- A) polynomial  
B) not a polynomial

18)  $9^z$

- A) polynomial  
B) not a polynomial

19)  $x^{0.25} - x$

- A) not a polynomial  
B) polynomial

20)  $5p^4 - 2p^5$

- A) not a polynomial  
B) polynomial