Polynomials

Answer the following questions.

A) $6a + a^2b^6 - 4 + b - c^3 - a^4 + 3b - 4c^3 + 10b^2$

    1)   Write the number of terms of the given polynomial.   _____

    2)   List out the pair of like terms for the given polynomial.   _____

    3)   What is the leading coefficient of the given polynomial?   _____

    4)   What is the degree of the given polynomial?   _____

    5)   What is the coefficient of b^2 in the given polynomial?   _____

B) $5k - 7k^3 + 6 - k^2 - k + 8k^4$

    1)   What is the leading coefficient of the given polynomial?   _____

    2)   Write the number of terms of the given polynomial.   _____

    3)   What is the coefficients of k in the given polynomial?   _____

    4)   Write down a pair of like terms for the given polynomial.   _____

    5)   What is the degree of the given polynomial?   _____

Polynomials

Answer key

Answer the following questions.

A) $6a + a^2b^6 - 4 + b - c^3 - a^4 + 3b - 4c^3 + 10b^2$

1)   Write the number of terms of the given polynomial.   **9**

2)   List out the pair of like terms for the given polynomial.   **$-c^3$ and $-4c^3$, b and 3b**

3)   What is the leading coefficient of the given polynomial?   **1**

4)   What is the degree of the given polynomial?   **8**

5)   What is the coefficient of b^2 in the given polynomial?   **10**

B) $5k - 7k^3 + 6 - k^2 - k + 8k^4$

1)   What is the leading coefficient of the given polynomial?   **8**

2)   Write the number of terms of the given polynomial.   **6**

3)   What is the coefficients of k in the given polynomial?   **5 and −1**

4)   Write down a pair of like terms for the given polynomial.   **5k and −k**

5)   What is the degree of the given polynomial?   **4**