Implement a class Polynomial that describes a polynomial such as

*p(x)* = 5*x*10 + 9*x*7 – *x* – 10

Store a polynomial as a linked list of terms. A term contains the coefficient and the power of *x*. For example, you would store *p(x)* as

(5, 10), (9, 7), (-1, 1), (-10, 0)

Supply methods to add, multiply, and print polynomials, and to compute the derivative of a polynomial.

Sample Run:

Polynomial Calculator

Performs basic operations on polynomial functions

Enter a polynomial below (ignore spaces):

5x^10+9x^7-x-10

Options:

1. Add polynomials
2. Multiply polynomials
3. Print polynomial
4. Compute derivative
5. Supply new polynomial
6. Quit

Enter choice: