

EX.0.1.6, Sauer

Explain how to evaluate the polynomial below for a given input x , using as few operations as possible. You are not allowed to use the power operator. So no $x**5$ for example. You can only multiplications and additions. How many multiplications and how many additions are required?

a. $p(x) = a_0 + a_5x^5 + a_{10}x^{10} + a_{15}x^{15}$

b. $p(x) = a_7x^7 + a_{12}x^{12} + a_{17}x^{17} + a_{22}x^{22} + a_{27}x^{27}$