

### EX.0.1.6, Sauer

Explain how to evaluate the polynomial for a given input  $x$ , using as few operations as possible. 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.  $p(x) = a_7x^7 + a_{12}x^{12} + a_{17}x^{17} + a_{22}x^{22} + a_{27}x^{27}$