Self-assessment questions

1. What is the GNU Octave command for fitting a given data to a polynomial of the type $y = a_3 x^3 + a_2 x^2 + a_1 x + a_0$?

2. What is the GNU Octave command to calculate values using a given fit (that is obtained using `polyfit`)?

3. To fit a given data to the polynomial $y = a + bx^5$ one can use `polyfit`. True or false?

Answers to self-assessment questions

1. `polyfit(x,y,3)`
2. `polyval`
3. False. One has to use design matrix and solve the set of resultant equations to obtain such a fit.