

Q1. Write a program to compute the first terms of sequence

$$x_n = x_{n-1} + 2x_{n-2} + x_{n-3}, \quad n=3,4,\dots,n$$

where $x_0 = 0, x_1 = 1, x_2 = 2$.

Q2. Write a program to find prime and odd numbers in a list

[233,105,31,17,101,157] are less than 50.

Q3. Write a program to draw of an expression $y = f(x)$ together with its derivative and integral of $f(x)$ on the interval $[a, b]$.