

Special Problem 5.6 -1

Consider the function:

$$f(x) = Ax + Bx^2 + Cx^3$$

Determine the values of A , B , and C such that:

1. $f(x=1) = 2$.
2. The function is **maximally flat** at $x = 1$.

Do **not** use any linear algebra solver that your calculator may have—
show **all** your work!