Answer on Question #55516 – Math - Discrete Math

Question 1. The technique of determining an approximate value of f(x) for a non-tabular value of x which lies outside the interval [a, b] is known as.....
a. Newton's second law
b.Newton's first law
c. Interpolation
d. extrapolation

Solution

The correct answer is "d. Extrapolation".

Question 2. The Lagrange's interpolating polynomial P(x) is given by ……..
a. $P(x)=L_0(x)f_3+L_1(x)f_2+L_2(x)f_1+L_3(x)f_0$
b. $p(x)=L_1(x)f_0+L_2(x)f_1+L_3(x)f_2+L_4(x)f_3$
c. $P(x)=L_0(x)f_0+L_1(x)f_1+L_2(x)f_2+L_3(x)f_3$
d. $P(x)=L_0(x)f_0+L_1(x)f_2+L_2(x)f_2+L_3(x)f_3$

Solution

The correct answer is "c. $P(x)=L_0(x)f_0+L_1(x)f_1+L_2(x)f_2+L_3(x)f_3$".