

Student Name:

Quiz #9

Student ID:

Employ inverse interpolation to determine the value of x that corresponds to f(x) = 0.85 for the following tabulated data:

X	0	1	2	3	4	5
f(x)	0	0.5	0.8	0.9	0.941176	0.961538

Note that the values in the table were generated with the function $f(x)=x^2/(1+x^2)$.

- (a) Determine the correct value analytically.
- (b) Use quadratic interpolation of x versus y.

Theoretical Models for Computing

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