Name: Solutions

If you start the bisection method with an interval of length 1, how many times must you evaluate the objective function in order to approximate the root to within a tolerance of $\frac{1}{16}$? Explain your thinking for any chance of partial credit.

		Total
Iteration #	Max Error	F'n Evalvations
0	1/2	$Z\left(f(a)+F(b)\right)$
	1/4	3
2	1/8	Ч
3	1/16	5

You must evaluate the objective function 5 times.