1. Use the Intermediate Value Theorem to find an interval of length one that contains a root of the equation. (a) $x^3 = 9$ (b) $3x^3 + x^2 = x + 5$ (c) $\cos^2 x + 6 = x$

[6,7] contain a root of the equation

6. Use the Bisection Method to calculate the solution of $\cos x = \sin x$ in the interval [0, 1] within six correct decimal places.

