## Third computer lab. Second part of three.

1. Find all zeros of the function $f(x)=\sin (x)+x+\cos (x)-\frac{5}{2}$.
2. Write a program that computes tight enclosures of the function

$$
\operatorname{erf}(x)=\int_{0}^{x} e^{-x^{2}} \mathrm{~d} x .
$$

What is the value of $\operatorname{erf}(1)$ ?
3. Let $X$ be a normally distributed random variable with zero mean and unit standard deviation. Compute tight enclosures of $a, b$ such that $P(-a<X<a)=0.95$ and $P(-b<X<b)=0.99$.

