Accessing The Class Maple Library

The Class Maple Library consists of a package of Maple procedures based on class content designed specifically for your use, both now and in the future. This Class Maple Library can be found in the directory \winfile2\data\brwalter on the campus computer network. To use this library on a campus lab machine that has Maple on it, copy the folder nalib to its c: drive. To use this library on a computer not in a CBU lab, make a copy of the nalib folder in \winfile2\brwalter on a floppy, flash drive, or ZIP disk or download the nalib folder from the class notes page. Then copy this to the c: drive of the Windows computer you will use or the root drive (usually named Macintosh HD) of the Macintosh you will use.

To then access this Library on a Windows machine with the folder nalib on its c: drive, I suggest beginning a Maple worksheet with the following commands:

```
> restart;
> libname:="c:/nalib",libname;
> with(numanal);
```

numanal is the name of the Maple package in our Library that contains the class procedures. Execution of the previous command displays a listing of all the procedures in the package.

To access the library from a Macintosh, assuming that the library nalib is on the root drive (usually named Macintosh HD), begin the worksheet with the following commands:

```
> restart;
> libname:="/nalib",libname;
> with(numanal);
```

Each procedure in the Library has a corresponding directions procedure. For example, bisection_dir is the directions procedure for bisection. To execute bisection_dir, use the following statement:

```
> bisection_dir();
> r:='r';
```

To actually use the procedure bisection, you would use a command such as the following:

```
> bisection(x-cos(x),0,1,.0001,100,r);
> r;
```