

Problem 1:

FALSE 1. You are required to create a function named func that takes two double arguments and returns a double result. Is the provided function prototype correct?

```
double func(double d1, d2);
```

TRUE 2. A variable declared within a function block is said to be local to the function.

FALSE 3. Keyword return is used in a function header to indicate that a function contains no parameters.

FALSE 4. A void function can return any value

TRUE 5. The following is legal in a void function:

```
return;
```

Problem 2:

Program Output:

True

False

False

False

Problem 3:

Code Output Screenshots:

```
❖ make -s
❖ ./main
Enter Quadratic Coefficients:
2 -11 14
The roots are 11.750000 and 10.250000
❖
```

```
❖ make -s
❖ ./main
Enter Quadratic Coefficients:
1 2 3
There are no real roots.
❖
```

```
❖ make -s
❖ ./main
Enter Quadratic Coefficients:
1 4 4
The root is -2.000000
❖
```

Problem 4:**Code Output Screenshots:**

```
❖ make -s
❖ ./main
f(0.3) = 0.262364
f(0.5) = 0.405465
f(0.8) = 0.587538
❖
```

Problem 5:**Code Output Screenshots:**

```
❖ make -s
❖ ./main
Enter the minimum random number to be generated:
12
Enter the maximum random number to be generated:
15
Enter the number of random numbers
3
-----
|001 | 12|
|002 | 12|
|003 | 13|
-----
Select an option:
a - mean of all random integers
b - sum of all random integers
c - exit
a
12.333
Select an option:
a - mean of all random integers
b - sum of all random integers
c - exit
b
37
Select an option:
a - mean of all random integers
b - sum of all random integers
c - exit
t
No such option
Select an option:
a - mean of all random integers
b - sum of all random integers
c - exit
c
Thank you!
❖
```

```
➤ make -s
➤ ./main
Enter the minimum random number to be generated:
4
Enter the maximum random number to be generated:
37
Enter the number of random numbers
20
-----
|001| 19|
|002| 24|
|003| 34|
|004| 5|
|005| 33|
|006| 21|
|007| 6|
|008| 12|
|009| 17|
|010| 26|
|011| 35|
|012| 14|
|013| 10|
|014| 20|
|015| 37|
|016| 19|
|017| 10|
|018| 36|
|019| 21|
|020| 10|
-----
Select an option:
a - mean of all random integers
b - sum of all random integers
c - exit
c
Thank you!
➤ █
```