

Technical Informatics I Assignment 2

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Technical Informatics 1: Dr Fatimah

Communitising Technology

- Aims
 - Familiarise students with arithmetic operations and math functions
- Expected Outcomes
 - Students are able to program simple codes that require C math functions to solve engineering problems
- References
 - Harry H. Cheng, 2010. C for Engineers and Scientists: An Interpretive Approach, McGraw Hill



• Write a program called func.c that calculates the equation (1) below.





The code prompts the user for the value of x and y. The code then displays the value of x and y in 4 decimal places and f(x) in 3 decimal places such that it looks **EXACTLY** like below:

```
Enter value of x:

3.412

Enter value of y:

2.413

f(3.4120,2.4130) = -173722.041

>Exit code: 0
```

• In this example, 3.415 and 2.413 were my input.



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Jniversit Valavsia



- In your code, make sure you:
 - Use appropriate comments
 - write your name, student ID and a brief explanation of what your code does
 - comment on certain important lines (at least 2 lines)
 - Program structure
 - Include all important elements (stdio.h, int main(), return 0 etc)
 - Declaration of variables
 - Assign appropriate types to the variables
 - Assign appropriate names for the assigned variables
 - Assign appropriate values to the variables
 - Function printf()
 - Prompts variable from user
 - Print out final answer with appropriate format specifier and calls to variables
 - Function scanf()
 - Appropriate format specifier assigned to variable





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