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| 1. Cutoff Frequency Function |  | Comments: Intro. with the filename, programmer name, date and purpose. A variable definition section. Clear comments that indicate the logic of the program |  |
|  | Code: Correct Function Definition Line - setup with R and L inputs and Cutoff output. All I/O at the command line only. |  |
|  | Code: Essentially correct logic for unit conversion of input and calculation of Cut off Frequency. |  |
|  | Code: Code logic completely correct |  |
|  | Execution: Correct call of function using the two inputs |  |
|  | Validation: Code correctly calculates cutoff frequency matching requested test calculation |  |

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| 1. Cartesian to Polar Function |  | Includes correct hand calculation of the magnitude, and angle in degrees,  plus a program step list |  |
|  | Comments: Intro. section with the filename, programmer name, date and purpose A variable definition section. Clear comments on program logic |  |
|  | Function Definition line: function set up with a correct function definition line |  |
|  | I/O: setup for all I/O on the command line  (two outputs: Magnitude and Angle and one input). |  |
|  | Program logic essentially correct  I/O variables correctly used in the code |  |
|  | Execution: Function called with correct setup for one input and two outputs at the command line. No other display or I/O is used. |  |
|  | Validation: Execution produces a magnitude and the angle in degrees matching the hand calculation. |  |

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| 1. **Trifolium Function** | Setup | 1. Program Development Worksheet used including  Complete Header, Clear problem statement, I/O tables complete. |  |
| 1. Correct hand calculations of Area and Arc length. Step list for program. |  |
| Code & Verification | 1. Function Definition line correct with two outputs. |  |
| 1. Correct Calculation of Area using input variables from command line I/O. No other I/O |  |
| 1. Correct Calculation of arc length using input variables for command line I/O |  |
| 1. Comments: Intro. with the filename, programmer name, date and purpose. A variable definition section, Clear comments on the logic of the program |  |
| 1. Verification: Code run on test case and compared to hand calculation. Code runs correctly |  |