

Exercise 6

PGPLOT, make, COMPLEX – II

(12.01.2026)

Review

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|---|---|
| <p>1. When a subroutine or function is called, what is correct regarding the list of arguments?</p> <ul style="list-style-type: none"><input type="checkbox"/> Order and number of arguments in the call must usually match the declaration of the procedure.<input type="checkbox"/> It is not allowed to pass an array.<input type="checkbox"/> As a subroutine has no return value, at least one argument must be passed via the list. | <p><input type="checkbox"/> _ (underscore)</p> <p><input type="checkbox"/> * (asterisk)</p> <p>3. Which Fortran FORMAT statement is correct?</p> <ul style="list-style-type: none"><input type="checkbox"/> <code>FORMAT '(A100,I4)'</code><input type="checkbox"/> <code>FORMAT (A100,I)</code><input type="checkbox"/> <code>FORMAT (A100,I4)</code> |
| <p>2. Which special character is allowed in Fortran as part of a <i>name</i> (variable, function, ...).</p> <ul style="list-style-type: none"><input type="checkbox"/> -- (dash) | <p>4. Which declaration of constant is not correct in Fortran?</p> <ul style="list-style-type: none"><input type="checkbox"/> <code>REAL CONST pi = 3</code><input type="checkbox"/> <code>PARAMETER (pi = 3)</code><input type="checkbox"/> <code>REAL, PARAMETER :: pi = 3</code> |

1. Task *Mandelbrot set with PGPLOT* (8 P)

Modify/extend your program from Exercise 5 task 2, so that you now use PGPLOT to make a picture of the Mandelbrot set.

Again, create an appropriate **Makefile**.