

| TEST      | Testing |        |              |               |         |         |
|-----------|---------|--------|--------------|---------------|---------|---------|
| g-shift   | NUMBR?  | ANGLE? | NaN?         | $\pm\infty$ ? | SPEC?   |         |
| f-shift   | EVEN?   | ODD?   | Re $\neq$ 0? | Im $\neq$ 0?  | VECT2D? | VECT3D? |
| unshifted | FP?     | INT?   | Re=0?        | Im=0?         | MATR?   | M.SQR?  |
| Page 3    | F1      | F2     | F3           | F4            | F5      | F6      |

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| Level      | Label   | Type              | FullName                 | Extended description                                                                                                                                                                                                                                                                    | Category    | Flag | Catalog | Default |
|------------|---------|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|---------|---------|
| Menu<br>p3 | TEST    | MENU              | Testing                  | Testing functions                                                                                                                                                                                                                                                                       | Programming |      | TEST    |         |
| F1         | FP?     | Command (logical) | Fractional Part?         | Test X has nonzero fractional part and is Real number (1.0-1.5) (test function R? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                          | Programming |      | FP?     |         |
| F2         | INT?    | Command (logical) | Integer?                 | Test X is short integer (8.02-8.16), long integer (0) or Real number (1.0-1.5) with zero fractional part (test function SINT?, LINT? or R? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a> | Programming |      | INT?    |         |
| F3         | Re=0?   | Command (logical) | Zero real part?          | Test X has real part equal to zero                                                                                                                                                                                                                                                      | Programming |      | Re=0?   |         |
| F4         | Im=0?   | Command (logical) | Zero imaginary part?     | Test X has imaginary part equal to zero                                                                                                                                                                                                                                                 | Programming |      | Im=0?   |         |
| F5         | MATR?   | Command (logical) | Real matrix or vector?   | Test type of X is Real matrix or vector (6) or Complex matrix or vector (7.n) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                       | Programming |      | MATR?   |         |
| F6         | M.SQR?  | Command (logical) | Square matrix?           | Test X is a square matrix (test function MATR? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                             | Programming |      | M.SQR?  |         |
| fF1        | EVEN?   | Command (logical) | Even?                    | Test X is even and integer (test function INT? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                             | Programming |      | EVEN?   |         |
| fF2        | ODD?    | Command (logical) | Odd?                     | Test X is odd and integer (test function INT? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                              | Programming |      | ODD?    |         |
| fF3        | Re≠0?   | Command (logical) | Non-zero real part?      | Test X has real part not equal to zero                                                                                                                                                                                                                                                  | Programming |      | Re≠0?   |         |
| fF4        | Im≠0?   | Command (logical) | Non-zero imaginary part? | Test X has imaginary part not equal to zero                                                                                                                                                                                                                                             | Programming |      | Im≠0?   |         |
| fF5        | VECT2D? | Command (logical) | 2D vector?               | Test X is a 2D vector (test function MATR? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                                 | Programming |      | VECT2D? |         |
| fF6        | VECT3D? | Command (logical) | 3D vector?               | Test X is a 3D vector (test function MATR? is true) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                                 | Programming |      | VECT3D? |         |
| gF1        | NUMBR?  | Command (logical) | Number?                  | Test type of X is Number (0 ; 1.0-1.5 ; 2.0-2.5) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                                    | Programming |      | NUMBR?  |         |
| gF2        | ANGLE?  | Command (logical) | Angle?                   | Test type of X is Angle (1.1-1.5) ; Ref : <a href="https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf">https://47calc.com/doc/C47/Reference/C47_Datatypes.pdf</a>                                                                                                                   | Programming |      | ANGLE?  |         |
| gF3        | NaN?    | Command (logical) | not-a-number?            | Test X is not-a-number                                                                                                                                                                                                                                                                  | Programming |      | NaN?    |         |
| gF4        | ±∞?     | Command (logical) | Infinites?               | Test X contains positive or negative infinite value                                                                                                                                                                                                                                     | Programming |      | ±∞?     |         |
| gF5        | SPEC?   | Command (logical) | Special?                 | Test X is special (±∞ or NaN)                                                                                                                                                                                                                                                           | Programming |      | SPEC?   |         |
| gF6        |         |                   |                          |                                                                                                                                                                                                                                                                                         |             |      |         |         |