```
   Checking for foreign routines
   FRICAS="/usr/local/lib/fricas/target/x86_64-linux-gnu"
   spad-lib="/usr/local/lib/fricas/target/x86_64-linux-gnu//lib/libspad.so"
   foreign routines found
   openServer result -2
                          FriCAS Computer Algebra System
              Version: FriCAS 2024-04-15 built with sbcl 2.2.9.debian
                     Timestamp: Di 28 Mai 2024 21:49:04 CEST
   ------------------------------------------------------------------------------
      Issue )copyright to view copyright notices.
      Issue )summary for a summary of useful system commands.
      Issue )quit to leave FriCAS and return to shell.
   ------------------------------------------------------------------------------

      Function declaration sixel : TexFormat -> Void has been added to
         workspace.
   Value = #<INTERPRETED-FUNCTION NIL {10020A026B}>
```

```
(6) -> quickLoad tmspt

   Value = |$inclAssertions|
   Value = T
   To load "tmspt":
     Load 1 ASDF system:
       tmspt
   ; Loading "tmspt"
      The current FriCAS default directory is
         /home/kfp/quicklisp/local-projects/spadlib/tmspt/lib
      Compiling FriCAS source code from file
         /home/kfp/quicklisp/local-projects/spadlib/tmspt/lib/../src/tmspt.spad
         using old system compiler.
      TMSPT abbreviates package TexmacsSupport
```

```
(6) -> a/b  -- normal mode
```

$$\frac{a}{b}$$

```
                                                Type: Fraction(Polynomial(Integer))
```

```
(8) -> a/b
```

$$\frac{a}{b}$$

```
                                                Type: Fraction(Polynomial(Integer))
```

```
(10) -> tmMathOn()

                                                                      Type: Void
```

```
(12) -> ?a/b

    LISP output:
   ? (a/b)
                                                                      Type: Any
```

```
(14) -> ?
```

$$\begin{pmatrix} q \\ a \end{pmatrix}$$

LISP output:
```
? matrix([[q ], [a]])
```
Type: Any

(16) -> ? $\begin{pmatrix} 1,2 \\ 3,4 \end{pmatrix}$

LISP output:
```
? matrix([[1,2], [3,4]])
```
Type: Any

(19) -> $a := b/z$

$$\frac{b}{z}$$
Type: Fraction(Polynomial(Integer))

(18) -> tmMathOff()

"()"

Type: Void

(20) -> tmMathOn()

Type: Void

(21) -> ? $\int_a^b f(x,y)\,dx$

LISP output:
```
? integrate(f(x,y) d x=a..b)
```
Type: Any

(26) -> ? $\int_a^b f(x,y)\,\mathrm{dx}$

LISP output:
```
? integrate(f(x,y) dx=a..b)
```
Type: Any

(27) -> ? $\frac{df(x)}{dx}$

LISP output:
```
? ((d f(x))/(d x))
```
Type: Any

(28) -> ? $\frac{\partial f(x,y)}{\partial y}$

LISP output:
```
? ((partial f(x,y))/(partial y))
```
Type: Any

(30) -> ? binomial(n,k)

LISP output:
```
? binomial(n,k)
```
Type: Any

(31) -> $?\binom{n}{k}$

LISP output:
?

Type: Any

(32) -> $?!n$

LISP output:
?!n

Type: Any

(33) ->