intdei2.wxmx 1 / 2

```
compile_file("c:/Users/prodanov/Dropbox/maxima/intde1.lisp");
       [c:/Users/prodanov/Dropbox/maxima/intde1.lisp, #P"c:/Users/prodanov/Dropbox/maxima/intde1
       :lisp (atan 1.0d0 1)
       0.7853981633974483
       atan(1),numer;
       0.7853981633974483
        :lisp(defun f (x) (/ 1 (sqrt x)));
       F
       load("c:/Users/prodanov/Dropbox/maxima/intde1.lisp");
       c:/Users/prodanov/Dropbox/maxima/intde1.lisp
        :lisp(defun f1 (x) (/ 1 (* x x)));
       F1
       :lisp(quadde::intde #'f 0.0d0 1.0d0 1.0d-15 0.0d0);
       1.999999999999993
       3.9999999999999e-15
       :lisp(quadde::intdei #'f1 1.0d0 1.0d-15 0.0d0);
       0.99999999999997
       2.0000000000000286e-15
       compile_file("c:/Users/prodanov/Dropbox/maxima/quadde.lisp");
       [c:/Users/prodanov/Dropbox/maxima/quadde.lisp, #P"c:/Users/prodanov/Dropbox/maxima/quadde.lisp
(\%04)
       load("c:/Users/prodanov/Dropbox/maxima/quadde.lisp");
       c:/Users/prodanov/Dropbox/maxima/quadde.lisp
       quad_intde(1/sqrt(x),x,0,1, 'epsrel=1e-15);
       (quad_intde(1/sqrt(x),x^2,0,1, 'epsrel=1e-15));
       Variable of integration: x^2 not an atom
        -- an error. To debug this try: debugmode(true);
       quad_intde(1/sqrt(x),z,0,1, 'epsrel=1e-15);
       Variable z not in \frac{1}{2}
        -- an error. To debug this try: debugmode(true);
```

intdei2.wxmx 2 / 2

```
quad intde(1/sqrt(x),x[k],0,1, 'epsrel=1e-15);
        Improper variable of integration: x_k
        -- an error. To debug this try: debugmode(true);
        quad intde(1/sqrt(x),1,0,1, epsrel=1e-15);
        Variable of integration not a variable: 1
        -- an error. To debug this try: debugmode(true);
        quad_intde(sin(x),x,x,%pi, 'epsrel=1e-15);
        Terminal contains variable of integration: x
        -- an error. To debug this try: debugmode(true);
        quad_intde(sin(x),x,0,'Q, 'epsrel=1e-15);
        Terminal not a number 0, Q
        -- an error. To debug this try: debugmode(true);
        integrate(sin(x),x,0, %pi);
(%o17)
        fe(expr,v):= (freeof( expr, var));
(\%o18) fe (expr, v):=freeof (expr, var)
        quad intdei(exp(-x)/sqrt(x),x,0, 'epsrel=1e-15);
(\%024) [1.772453850905516,7.089857411626387 10^{-15}]
        gamma(1/2),numer;
(%012) 1.772453850905516
        quad intdeo(2*\sin(x)/x, x, 0, 1, 'epsrel=1e-15);
       [3.141592653589794, 1.327780749559718 10^{-14}]
        integrate(2*sin(x)/x,x,0, inf);
(%o11)
       \pi
        quad intdeo(bessel j(0,x)/(x^2+1)^*x,x,0,1, 'epsrel=1e-15);
(\%027) [0.4210244382407084,2.23303344580517 10<sup>-15</sup>]
        bessel k(0,1),numer;
(%016) 0.4210244382407085
```

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