FINITE MUMENTS

1

C:\Macsyma\Macsyma2\system\init.lsp being loaded.

Batching the file C:\Macsyma\Macsyma2\user\mac-init.mac Batchload done.

(c1)
$$c(x):=(\%pi*(1+x^2))^{-1}$$

(d1)
$$c(x) := \left(\pi \left(1 + x^2\right)\right)^{-1}$$

(c2) integrate(c(x),x,minf,inf)

C:\MACSYMA\Macsyma2\library1\combin.fas being loaded. C:\MACSYMA\Macsyma2\library1\binoml.fas being loaded.

(c3) integrate(c(x)*x,x,minf,inf)

Integral is not absolutely convergent.

Maybe you want to try the computation with INTANALYSIS:FALSE.

(c4) integrate(
$$c(x)*x,x,-t,t$$
)

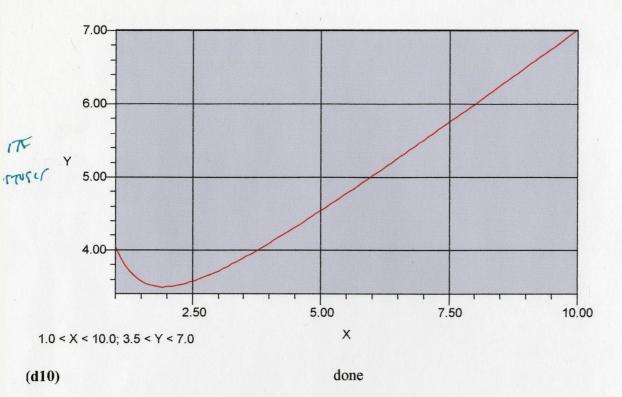
(c6) integrate(
$$c(x)*x^2,x,-t,t$$
)

$$\frac{2\left(t-\operatorname{atan}(t)\right)}{\pi}$$

(c7) integrate(
$$c(x)*x^4,x,-t,t$$
)

(d7)
$$\frac{2(3 \operatorname{atan}(t) + t^3 - 3t)}{3 \pi}$$

(d9)
$$\frac{\pi \left(3 \arctan(t) + t^3 - 3 t\right)}{6 \left(t - \arctan(t)\right)^2}$$



(c23)

(c11)