

```

dX_t:=piecewise([#t < `&tau;`,`&sigma;`*dW_t],[#t <= `&tau;`,`&thetav;`*dt+`&sigma;`*dW_t])
Error: Unexpected 'identifier'. [line 1, col 32]

`&sigma;`:=1
1

`&sigma;`
1

a:=`&sigma;`
1

reset
reset

a
1

reset()

a
a

sigma
sigma

`&sigma;`=1
σ = 1

x:=`&sigma;`+5
σ + 5

reset()

dX_t:=piecewise([#t < `&tau;`,`&sigma;`*dW_t],[#t <= `&tau;`,`&thetav;`*dt+`&sigma;`*dW_t])
Error: Unexpected 'identifier'. [line 1, col 32]

reset()

x=`&sigma;`+5;
x = σ + 5

x
x

x:=
x:=`&sigma;`+1
σ + 1

x
σ + 1

fprintf(Unquoted, Text, "xmu.m", generate::MATLAB(S)):

x
σ + 1

S
S

fprintf(Unquoted, Text, "xmu.m", generate::MATLAB(x)):
Warning: Rewriting symbol '`&sigma;`' to 'sigma'.

reset()

dX_t:=piecewise([#t < `&tau;`,`sigma;`*dW_t],[#t <= tau,#thetav*dt+sigma*dW_t])

$$\begin{cases} \sigma dW_t & \text{if } t < \tau \\ dW_t \sigma + \text{thetav } dt & \text{if } t \leq \tau \end{cases}$$

dX_t:=piecewise([#t < `&tau;`,`sigma;`*dW_t],[#t <= tau,#thetav*d_t+sigma*dW_t])

```

```

[ 
$$\begin{cases} \#sigma \, dW_t & \text{if } \#t < \tau \\ dW_t \, sigma + \#thetav \, d_t & \text{if } \#t \leq \tau \end{cases}$$

[ dX_t:=piecewise([t < tau,#sigma*dW_t],[t <= tau,thetav*d_t+sigma*dW_t])
[ 
$$\begin{cases} \#sigma \, dW_t & \text{if } t < \tau \\ dW_t \, sigma + d_t \, thetav & \text{if } t \leq \tau \end{cases}$$

[ fprintf(Unquoted, Text, "dX_t.m", generate::MATLAB(dX_t)):
[ reset()
[ P_theta_gt_t:=(1-p)*exp(-lambda*t)
[  $-e^{-\lambda t} (p-1)$ 
[ fprintf(Unquoted, Text, "P_theta_gt_t.m", generate::MATLAB(P_theta_gt_t)):
[ reset()
[ R_T:=abs(12)
[ 12
[ theta:=9: r_T:=abs(T)-abs(theta)
[ Error: The identifier 'theta' is protected. [_assign]
[ reset()
[
[ abs(`&tau;`)
[  $|\tau|$ 
[ R_T:=Est * abs(T-`&tau;`)
[ Est  $|\tau - T|$ 
[ fprintf(Unquoted, Text, "R_T.m", generate::MATLAB(R_T)):
[ Warning: Rewriting symbol '`&tau;`' to 'tau'.
[ reset()
[ R_T:=E(`&tau;`)+2*E*int((`&Pi;-0.5), x=0..T)
[  $e(\tau) + 2 T e \#(\Pi - 0.5)$ 
[ int(#f, #x=#a..#b)
[  $-\#f (\#a - \#b)$ 
[ reset()
[ standardScalarProduct := linalg::scalarProduct:
[ unprotect(linalg):
[ linalg::scalarProduct := proc(u, v)
[     local F, f, t;
[ begin
[     // (0)
[     f := expr(u[1] * v[1]);
[
[     // (1)
[     t := indets(f);
[     if t = {} then t := genident("t") else t := op(t, 1) end_if;
[
[     // (2)
[     F := int(f, t = 0..1);
[
[     // (3)
[     u::dom::coeffRing::coerce(F)
[ end:
[

```