

```

[ reset();
[ question3:= proc(n)
begin ;
f:=x->exp(-x^2)/sqrt(2*PI);
g:=t->log(int(exp(t*x)*f(x),x=-infinity..infinity));
s:=diff(g(t),t$n);
y:=s|t=0;
return(y);
end_proc;
[ proc question3(n) ... end
[ question3(3)
[ 0
[ question4:= proc()
begin ;
a:=matrix([[1,2,3],[3,x,4],[1,2,5]]);
eig_list:=linalg::eigenvalues(a);
y:=solve(eig_list[1]=1 or eig_list[2]=1 or eig_list[3]=1,{x});
return(y);
end_proc;
[ proc question4() ... end
[ question4()
[  $\left\{ \left[ x = \frac{5}{3} \right] \right\}$ 
[ question5:= proc(a,b)
begin ;
primes:=map([$a..b],isprime);
list:=-1;
for i from 1 to b-a-1 do
if primes[i] and primes[i+2] then
list:=list,a-1+i,a+1+i;
end_if;
end_for;
delete list[1];
return(list);
end_proc;
[ proc question5(a, b) ... end
[ question5(10,50)
[ 11, 13, 17, 19, 29, 31, 41, 43
[
[

```