

```

[ > restart;
[ > with(linalg):
Warning, the protected names norm and trace have been redefined and unprotected
[ > A:=matrix([[2,4],[-1,6]]);  

[ A :=  

[ [ 2, 4 ]  

[ [-1, 6 ]  

[ > X0:=matrix([[-1],[6]]);  

[ X0 :=  

[ [ -1 ]  

[ [ 6 ]  

[ > eAt:=exponential(A,t);  

[ eAt :=  

[ [ e^(4 t) - 2 t e^(4 t) , 4 t e^(4 t) ]  

[ [ -t e^(4 t) , e^(4 t) + 2 t e^(4 t) ]  

[ > X:=evalm(eAt&*X0);  

[ X :=  

[ [ -e^(4 t) + 26 t e^(4 t) ]  

[ [ 13 t e^(4 t) + 6 e^(4 t) ]  

[ >

```