

```

[ > restart;
[ > with(linalg):
Warning, the protected names norm and trace have been redefined and unprotected
[ > A:=matrix([[3,-3],[2,-2]]);

$$A := \begin{bmatrix} 3 & -3 \\ 2 & -2 \end{bmatrix}$$

[ > eigenvects(A);

$$[0, 1, \{[1, 1]\}], \left[ 1, 1, \left\{ \begin{bmatrix} 3 \\ 2 \end{bmatrix}, 1 \right\} \right]$$

[ > Phi:=matrix([[1,3*e^t],[1,2*e^t]]);

$$\Phi := \begin{bmatrix} 1 & 3e^t \\ 1 & 2e^t \end{bmatrix}$$

[ > inverse(Phi);

$$\begin{bmatrix} -2 & 3 \\ \frac{1}{e^t} & -\frac{1}{e^t} \end{bmatrix}$$

[ >

```