```
> restart : with(LinearAlgebra) : with(plots) : with(plottools) :
      with(VectorCalculus) : SetCoordinates(cartesian[x, y, z]) :

>

> eq := diff(T(t), t$2) + diff(T(t), t$1) + k^2·T(t) = 0 :

> sol := simplify(dsolve(eq))
```

$$sol := T(t) = c_1 \, e^{\frac{\left(-1+\sqrt{-4k^2+1}\right)t}{2}} + c_2 \, e^{-\frac{\left(1+\sqrt{-4k^2+1}\right)t}{2}} \qquad (1)$$

```
>
```