

```
restart;
with(DETools):
with(plots):
with(VectorCalculus):
declare(u(r), V(r)):
params := [k, VV, R]:
assume(VV > 0, R > 0):
V(r) := piecewise(0 ≤ r ≤ R, -VV, r > R, 0):
SYS2 := { d^2/d^2 u(r) + k^2 · u(r) = V(r) · u(r), u(0) = 0 };
```

```
sol := dsolve(SYS2, numeric, parameters=params);
sol(parameters = [1, 2, 1]);
```

rror, (in f) unable to store '(D(u))(0)' when datatype=float[8]

$$SYS2 := \left\{ \frac{d^2}{dr^2} u(r) + k^2 u(r) = \left\{ \begin{array}{ll} -VV & 0 \leq r \text{ and } r \leq R \\ 0 & R < r \end{array} \right. u(r), u(0) = 0 \right\}$$

Clarifier l'expression



Certaines parties de l'expression sont ambiguës. S'il vous plaît, sélectionner un des sens suggérés.

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```

Sélectionner un sens pour l'expression:

function definition

remember table or rtable assignment

Annuler

OK