alphabeta_to_abc_1.xbe

Attributes

```
xbe name=alphabeta_to_abc_1 evaluate=yes
Jacobian: constant
input_vars: alpha beta
output_vars: a b c
aux_vars:
iparms:
sparms:
rparms:
stparms:
igparms:
outparms: a b c alpha beta
```

Description

alphabeta_to_abc_1.xbe employs the following equations to relate alpha, beta to a, b, c:

$$
\begin{bmatrix} a \\ b \\ c \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ -\dfrac{1}{2} & \dfrac{\sqrt{3}}{2} \\ -\dfrac{1}{2} & -\dfrac{\sqrt{3}}{2} \end{bmatrix} \begin{bmatrix} \alpha \\ \beta \end{bmatrix}.
$$