

pole_complex_order_2.xbe

Attributes

```
xbe name=pole_complex_order_2 integrate=yes
+ allow_elex=yes elex_need_oldvars=yes
Jacobian: constant
input_vars: x
output_vars: y
aux_vars: z1 z2 z3
iparms:
sparms:
rparms: a=1 b=1 alpha=1 beta=1
stparms: y_st=0
igparms:
outparms:
```

Description

pole_complex_order_2.xbe is used to get

$$y = \left[\frac{a + jb}{(s - (\alpha + j\beta))^2} + \frac{a - jb}{(s - (\alpha - j\beta))^2} \right] x. \quad (1)$$