```
def react fct (uval):
 # problem dependent function for reaction terms
  ************* TODO ***********
# implement the correct reaction function
 alpha = 1500 # Values from 3b
 rb = 0.015
 mu = 35
 u1 = uval[0]
 u2 = uval[1]
 x = rb*(1+(u1*u1)/u2) - mu*u1
 y = rb*u1*u1 - alpha*u2
 return x,y
```