```
from sympy.solvers import solve
from sympy import *
from sympy import Matrix
from scipy.optimize import fsolve
x,y,a,b= symbols('x, y, a, b')
init_printing(use_unicode=True)
sol=solve(((b-1)**3)*x+(b-1)**2-a*(a*x**2-1)**2,x)

sol
```

$$\left[\frac{-b-\sqrt{4a-3b^2+6b-3}+1}{2a}, \frac{-b+\sqrt{4a-3b^2+6b-3}+1}{2a}, \frac{b-\sqrt{4a+b^2-2b+1}-1}{2a}\right.$$