```
(%i9)  dx(x,y) := k1*(1-x-y) - k3*x*y;
       dy(x,y) := k2*(1-x-y)^2 = k3*x*y;
       solve([dx(x,y), dy(x,y)], [x,y]);
```

(%o9) $\mathrm{dx}\left(x,y\right) := k1\ \left(1-x-y\right)-k3\,x\,y$

(%o10) $\mathrm{dy}\left(x,y\right) := k2\left(1-x-y\right)^2 = k3\,x\,y$

(%o11) $[[x=1,y=0],[x=-\frac{\sqrt{\left(k2^2-2\,k1\,k2+k1^2\right)\ k3^2-4\,k1^2\,k2\,k3}+\left(k1-k2\right)\ k3}{2\,k2\,k3},y=-\frac{k1\,\sqrt{k2^2\,k3-2\,k1\,k2\,k3+k1^2\,k3-4\,k1^2\,k2}+\left(k1\,k2+k1^2\right)\ \sqrt{k3}}{k3\,\sqrt{k2^2\,k3-2\,k1\,k2\,k3+k1^2\,k3-4\,k1^2\,k2}+\left(k1-k2\right)\ k3^{\frac{3}{2}}-2\,k1\,k2\,\sqrt{k3}}],[x=\frac{\sqrt{\left(k2^2-2\,k1\,k2+k1^2\right)\ k3^2-4\,k1^2\,k2\,k3}+\left(k2-k1\right)\ k3}{2\,k2\,k3},y=\frac{\left(k1\,k2+k1^2\right)\ \sqrt{k3}-k1\,\sqrt{k2^2\,k3-2\,k1\,k2}}{k3\,\sqrt{k2^2\,k3-2\,k1\,k2\,k3+k1^2\,k3-4\,k1^2\,k2}+(k$
$0,y=1]]$