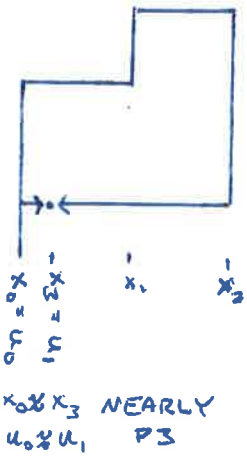

```
> f:= r*x*(1-x);
  f3:= subs( x=f,subs(x=f, f));
```

$$f := r\,x\,(1-x)$$

$$f3 := r^3\,x\,(1-x)\,(1-r\,x\,(1-x))\,(1-r^2\,x\,(1-x)\,(1-r\,x\,(1-x)))$$

```
> r:= 1+sqrt(8) -0.01:
  plot({x, f,f3}, x=0..1, 0..1,color = [green,blue,black]);
```

$x_0 \approx x_3$ NEARLY
$u_0 \approx u_1$ P3

$x_0 = u_0$
$x_1 = f(x_0)$
$x_2 = f^2(x_0)$
$x_3 = f^3(x_0)$ $u_1 = f^3(u_0)$

$x_6 = u_2$

$x_9 = u_3$