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> #Deven Singh, Assignment 11
  #DO NOT POST
  #Question 1
> #SFPe(f,x): The set of fixed points of x->f(x) done exactly (and allowing symbolic parameters),
  followed by the condition of stability (if it is between -1 and 1 it is stable)
  #Try: FPe(k*x*(1-x),x);
  SFPe := proc(f, x) local f1, L, i :
  f1 := diff(f, x) :
  L := [solve(f=x, x)] :
  [seq( [L[i], normal(subs(x=L[i],f1)) ], i=1 ..nops(L)) ] :

  end:
> SFPe(k*x*(1-x),x);

```

$$\left[[0, k], \left[\frac{k-1}{k}, -k+2 \right] \right]$$

(1)

```

> #When k<3, k must be between -1 and 1 to have one stable fixed point at 0
>

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