

```

In[7]:= f[x_] := 1/(1 - x)
x0 = 0.321;
n = 10;
nl = NestList[f, x0, n]

nl4 = Transpose[{nl, nl, nl, nl}] // Flatten;

```

```

In[15]:= nl5 = Take[nl4, {4, -4}];
nl6 = Partition[nl5, 2]

```

```

Out[16]= {{0.321, 1.47275}, {1.47275, 1.47275}, {1.47275, -2.11526}, {-2.11526, -2.11526},
{-2.11526, 0.321}, {0.321, 0.321}, {0.321, 1.47275}, {1.47275, 1.47275}, {1.47275, -2.11526},
{-2.11526, -2.11526}, {-2.11526, 0.321}, {0.321, 0.321}, {0.321, 1.47275}, {1.47275, 1.47275},
{1.47275, -2.11526}, {-2.11526, -2.11526}, {-2.11526, 0.321}, {0.321, 0.321}, {0.321, 1.47275}}

```

```

In[35]:= p1 = ListPlot[nl6, Joined -> True, PlotStyle -> Red];
p2 = Plot[{x, f[x]}, {x, -4, 4}];
Show[p2, p1]

```

Out[37]=

