

```
In[162]:= Clear["Global`*"]
```

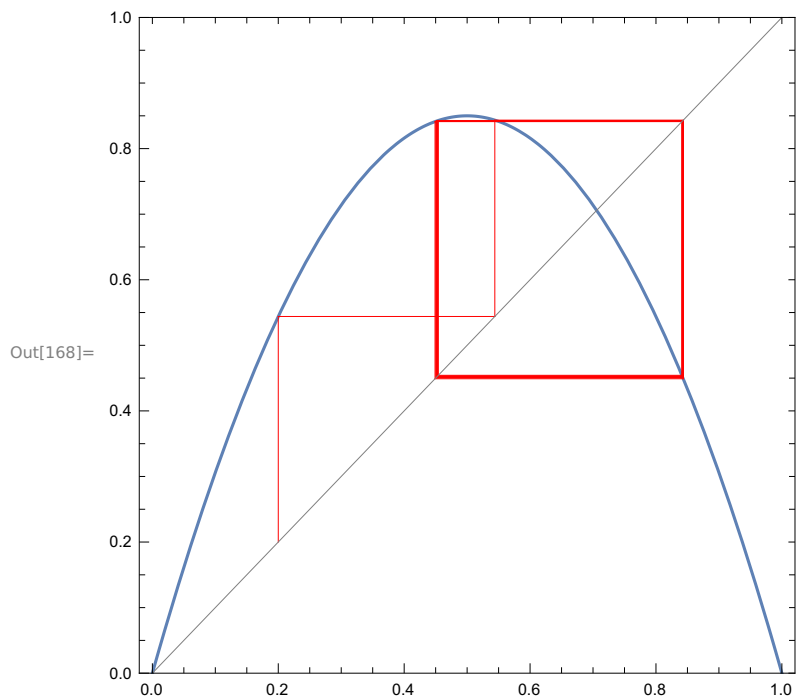
```
In[163]:= maxIterations = 500;
```

```
In[164]:= cobweb[map_, x0In_, xRange_] :=  
  Module[{diagonal, curve, line, line2, web = {}, x0, x1},  
  
    diagonal = Graphics[  
      {Gray, Line[{xRange[[1]], xRange[[1]]}, {xRange[[2]], xRange[[2]]}]},  
    ];  
  
    curve = Plot[map[x], {x, xRange[[1]], xRange[[2]]},  
      Frame → True, Axes → False, AspectRatio → 1, PlotRange → xRange];  
  
    x0 = x0In;  
    For[i = 0, i < maxIterations, i++,  
      x1 = map[x0];  
      line = Graphics[  
        {Red, Line[{x0, x0}, {x0, x1}]},  
      ];  
      line2 = Graphics[  
        {Red, Line[{x0, x1}, {x1, x1}]},  
      ];  
      x0 = x1;  
      AppendTo[web, line];  
      AppendTo[web, line2];  
    ];  
  
    Show[curve, web, diagonal]  
  ]
```

```
In[165]:= gaussMap[x_] := Exp[-4.9 x2] + -.58
```

```
r = 3.4;  
logisticMap[x_] := r x (1 - x)
```

```
In[168]:= cobweb[logisticMap, .2, {0, 1}]
```



```
In[171]:= cobweb[gaussMap, -.2, {- .5, .5}]
```

