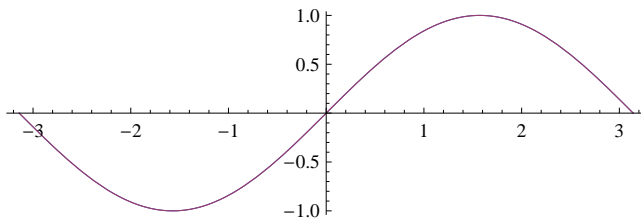```
demo = Import["C:/Users/Daniel/Downloads/halfsin.xls"]

demo[[1]][[1]]
```

$\{1.5708, 2.08961, 1.14018, 1., 1., 1.8044 \times 10^{-11}\}$

```
t = Table[{{demo[[1]][[k]][[1]], demo[[1]][[k]][[3]]},
     {-demo[[1]][[k]][[1]], -demo[[1]][[k]][[3]]},
     {N[Pi] - demo[[1]][[k]][[1]], demo[[1]][[k]][[3]]},
     {-N[Pi] + demo[[1]][[k]][[1]], -demo[[1]][[k]][[3]]}}, {k, 157, 1, -1}];
t = Sort[Flatten[t, 1]];

f = Interpolation[t]
```

$\text{InterpolatingFunction}[\{\{-3.1308, 3.1308\}\}, <>]$

```
Plot[{Sin[x], f[f[x]]}, {x, -Pi, Pi}, AspectRatio → Automatic]
```
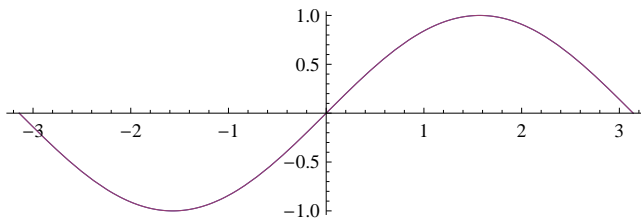
InterpolatingFunction::dmval :

  Input value $\{-3.14146\}$ lies outside the range of data in the interpolating function. Extrapolation will be used. ≫


```
Plot[{Sin[x], f[f[x]]}, {x, -Pi, Pi}, AspectRatio → Automatic]
```

InterpolatingFunction::dmval :

  Input value $\{-3.14146\}$ lies outside the range of data in the interpolating function. Extrapolation will be used. ≫


```
Plot[{Sin[x], f[x]}, {x, -Pi, Pi}, AspectRatio → Automatic]
```

InterpolatingFunction::dmval :

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