

```

> # Prof. Dr. Serkan Dağ
  # ME 310 Numerical Methods
  # File 4.2
  # Fixed-Point Iteration
  # Root of  $x - \sin(\sqrt{x}) = 0$ 

```

```

> f := x - sin(sqrt(x));

```

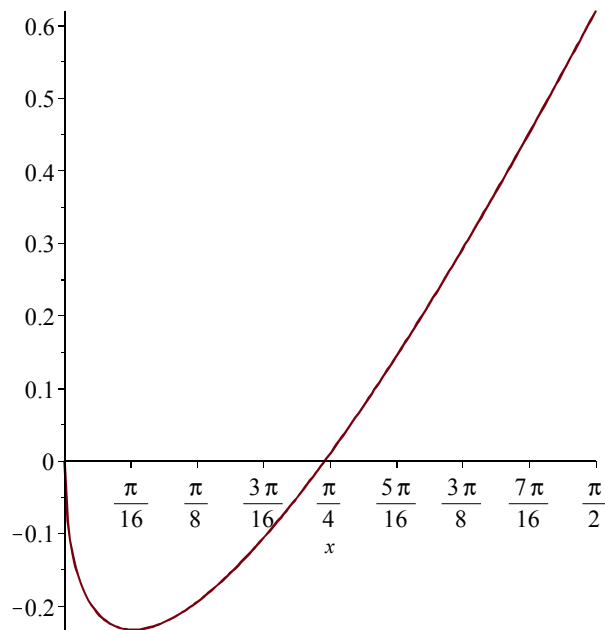
$$f := x - \sin(\sqrt{x})$$

(1)

```

> plot(f, x=0..Pi/2);

```



```

> fsolve(f=0, x=0..Pi/4);

```

0.7686488568

(2)

```

>

```