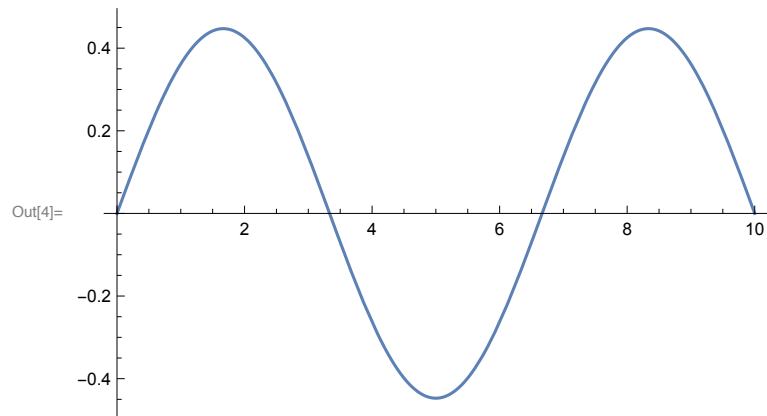


```
In[1]:=  $\psi[x_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{nx * \pi}{L} x\right];$ 
```

```
nx = 3;
```

```
L = 10;
```

```
Plot[ $\psi[x]$ , {x, 0, 10}]
```



```
In[*]:=
```

```
Manipulate[Plot[ $\psi[x nx]^2$ , {x, 0, 10}, PlotLegends → {nx}],  
{nx, 1, 100, 1}, ControlType → Slider]
```

