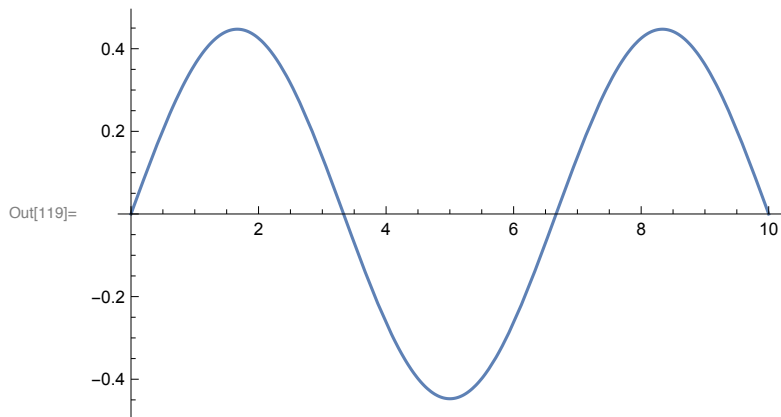


In[117]:= $\psi[x_ , nx_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{nx * \pi}{L} x\right];$

L = 10;

Plot[$\psi[x, 3]$, {x, 0, 10}]



In[120]:=

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

