

```
a = 50; b = 40;
```

```
 $\psi = \text{NDSolve}[\text{y}''[\mathbf{x}] - \frac{2}{\mathbf{x}} \text{y}'[\mathbf{x}] + \text{y}[\mathbf{x}] == 0$   
&&  $\text{y}[1] == 1$  &&  $\text{y}'[1] == 0,$   
 $\text{y}[\mathbf{x}], \{\mathbf{x}, 1, \mathbf{a}\}$   
];
```

```
Plot[Evaluate[y[x] /.  $\psi$ ],  
{x, 1, a}, PlotRange  $\rightarrow$  {-b, b}]
```

