

In[3]:= **DSolve** $\left[x * y''[x] + y'[x] + y[x] == 0, y[x], x\right]$

Out[3]=  $\left\{\left\{y[x] \rightarrow \text{BesselJ}\left[0, 2 \sqrt{x}\right] c_1 + 2 \text{BesselY}\left[0, 2 \sqrt{x}\right] c_2\right\}\right\}$