

In[32]:= **DSolve**[**y**'[**x**]/**y**[**x**] == **a**, **y**[**x**], **x**]

Out[32]= { {**y**[**x**] →  $e^{a x} C[1]$  } }

In[33]:= **DSolve**[**y**''[**x**] + (**a** - 2 \* **q** \* **Cos**[2 \* **x**]) \* **y**[**x**] == 0, **y**[**x**], **x**]

Out[33]= { {**y**[**x**] →  $C[1] \text{MathieuC}[a, q, x] + C[2] \text{MathieuS}[a, q, x]$  } }