

```

In[8]:= eqn =  $y'' + p y' + q y$ 
Out[8]=  $q y + p y' + y''$ 
In[9]:= eqn /.  $y \rightarrow \mu v$ 
Out[9]=  $q v \mu + p (v \mu)' + (v \mu)''$ 
In[11]:= D[a[x] b[x], x]
Out[11]=  $b[x] a'[x] + a[x] b'[x]$ 
In[7]:= y'
Out[7]=  $y'$ 
In[5]:= eqn // FullForm
Out[5]/FullForm=  $\text{Plus}[\text{Times}[q[x], y[x]], \text{Times}[p[x], \text{Derivative}[1][y][x]], \text{Derivative}[2][y][x]]$ 
In[12]:= Plus[Times[q[x], y[x]], Times[p[x], Derivative[1][y][x]], Derivative[2][y][x]]
Out[12]=  $q[x] y[x] + p[x] y'[x] + y''[x]$ 
In[14]:=  $(q[x] y[x] + p[x] y'[x] + y''[x]) /. y \rightarrow \mu v) // \text{FullForm}$ 
Out[14]/FullForm=  $\text{Plus}[\text{Times}[q[x], \text{Times}[v, \text{\textbackslash}[mu]][x]], \text{Times}[p[x], \text{Derivative}[1][\text{Times}[v, \text{\textbackslash}[mu]]][x]], \text{Derivative}[2][\text{Times}[v, \text{\textbackslash}[mu]]][x]]$ 
In[15]:= D[y[x], x]
Out[15]=  $y'[x]$ 

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