

```

In[6]:= f[x_, y_] := -Exp[-2 nu t] Cos[beta x] Cos[beta y] / beta

In[11]:= FullSimplify[D[f[x, y], y]]
Out[11]=

$$e^{-2 \nu t} \cos[\beta x] \sin[\beta y]$$


In[12]:= FullSimplify[- D[f[x, y], x]]
Out[12]=

$$-e^{-2 \nu t} \cos[\beta y] \sin[\beta x]$$


In[14]:= - FullSimplify[D[f[x, y], {x, 2}] + D[f[x, y], {y, 2}]]
Out[14]=

$$-2 \beta e^{-2 \nu t} \cos[\beta x] \cos[\beta y]$$


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