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In[15]:= u[x_, y_] := -(2*(a1 + a3*y + k*(e^(k*(x - x0)) - e^(-k*(x - x0))))*cos[k*y])/(R*(a0 + a1*x + a2*y + a3*x*y + (e^(-k*(x - x0)) + e^(k*(x - x0)))*cos[k*y]))
u = u[x, y]

Out[16]= - (2 (a1 + a3 y + (-e^(-k (x-x0)) + e^(k (x-x0))) k cos[k y]) / (R (a0 + a1 x + a2 y + a3 x y + (e^(-k (x-x0)) + e^(k (x-x0))) cos[k y])))


In[17]:= v[x_, y_] := -(2*(a2 + a3*x - k*(e^(-k*(x - x0)) + e^(k*(x - x0)))*sin[k*y])/(R*(a0 + a1*x + a2*y + a3*x*y + (e^(-k*(x - x0)) + e^(k*(x - x0)))*cos[k*y])))
v = v[x, y]




Out[18]= - (2 (a2 + a3 x - (e^(-k (x-x0)) + e^(k (x-x0))) k sin[k y]) / (R (a0 + a1 x + a2 y + a3 x y + (e^(-k (x-x0)) + e^(k (x-x0))) cos[k y])))

In[26]:= x1 = D[u, x]*u + D[u, y]*v
x2 = (D[u, {x, 2}] + D[u, {y, 2}])/R

In[29]:= simplify(x1 - x2)

Out[29]= 0
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 **Connection Established**
You are now connected to the Wi-Fi network 'Brick Squad'.

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