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In[89]:= eqn1 = x1 == (px1 + y1) h + x0;
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In[90]:= eqn2 = y1 == (py1 - x1) h + y0;
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In[91]:= Solve[{eqn1, eqn2}, {x1, y1}] // FullSimplify
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Out[91]=  $\left\{ \left\{ x1 \rightarrow \frac{x0 + h (px1 + h py1 + y0)}{1 + h^2}, y1 \rightarrow \frac{-h (h px1 - py1 + x0) + y0}{1 + h^2} \right\} \right\}$ 
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