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system yields the new system. $u - uv = (a+b) - uv$. $v + uv = (a - b) - uv$. Multiplying the above two equations yields $uv(1 - uv) = (a^2 - b^2)(1 - uv)$, hence $uv = a^2 - b^2$. It follows that $u = (a+b) - uv$ and $v = (a - b) - uv$.
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