

Are those constraints enough?

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Suppose we used those constraints, ran the 3-SAT solver on these constraints, and just return what it says.

Are we done? If this reduction is correct, explain to each other why!
If it's not correct explain why not.

English – for each edge (u, v)	SAT
If u is red, then v is blue or green	$x_{u,r} == False \parallel x_{v,b} == True \parallel x_{v,g} == True$
If u is blue, then v is red or green	$x_{u,b} == False \parallel x_{v,r} == True \parallel x_{v,g} == True$
If u is green, then v is red or blue	$x_{u,g} == False \parallel x_{v,r} == True \parallel x_{v,b} == True$
If v is red, then u is blue or green	$x_{v,r} == False \parallel x_{u,b} == True \parallel x_{u,g} == True$
If v is blue, then u is red or green	$x_{v,b} == False \parallel x_{u,r} == True \parallel x_{u,g} == True$
If v is green, then u is red or blue	$x_{v,g} == False \parallel x_{u,r} == True \parallel x_{u,b} == True$