	LVA 7031					
	November 25, 2					
For the following sets of equations $E$ , construct equality graphs and find all contradicto cycles to decide satisfiability:						
$v_2 \neq v_7$	$v_7 \qquad v_3 \neq v_5$					
$v_7 = v_8$	$v_8 \qquad v_7 \neq v_3$					
$v_3 \neq v_8$ $v_7 = v_1$	$v_8 \qquad v_4 \equiv v_5$					
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and binary g	5.					
quations $E$ :						
f(b) = c	C					
$\Gamma(C) = \Gamma$	r(n(c))					
b) Use congruence closure to determine whether the following set of literals is satisfiable						
$f(a) \neq 0$	c $c = f(b)$					
ving set of lif	iterals is satisfiable					
f(f(a))	= g(b, b)					
f(c)	$\neq$ g(a, b)					
$b)\wedgeg(a,b)=$	$= b \wedge$					
ce from last	week), but now					
ce · · · · ·	∧ g(a, b) = from last in such a numbers b should hav					

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