## Chapter 1: Constraints

What are they, what do they do and what can I use them for.



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11	<b>J</b> Gauss-Jordan Example I
71	$1 + X = 2Y + Z \land \qquad 1 + X = 2Y + Z$
	$Z - X = 3 \wedge$
	X + Y = 5 + Z
	Replace X by $2Y+Z-1$
	$X = 2 Y + Z - 1 \wedge$
	$Z - 2Y - Z + 1 = 3 \land \qquad -2Y = 2$
	2 Y + Z - 1 + Y = 5 + Z
	Replace Y by -1
	$X = -2 + Z - 1 \wedge$
	$Y = -1 \land$
	-2 + Z - 1 - 1 = 5 + Z - 4 = 5
	Return false

in	Gauss-Jordan Example 2
	$1 + X = 2Y + Z \land \qquad 1 + X = 2Y + Z$ Z - X = 3
-	Replace X by $2Y+Z-1$
	$X = 2Y + Z - 1 \land$ Z - 2Y - Z + 1 = 3 - 2Y = 2
-	Replace Y by -1
-	$\begin{array}{rcl} X &=& Z &-& 3 \\ Y &=& -& 1 \end{array}$









































