

## (.int Propositional Variables <br> Want a formula that means $G$ is 3 -colorable

Do this using variables $\begin{array}{lll}R_{1} & W_{1} & B_{1}\end{array}$
which will mean that vertex 1 is colored Red, White, or Blue


$\left[R_{1}\right.$ OR $W_{1}$ OR $\left.B_{1}\right]$
AND
which will mean that vertex 1 is colored Red, White, or Blue




