Weekly Problems 12 - Solution
1)

2)

$$
\begin{aligned}
& \text { colors: } 0<0<0<0 \\
& \text { Optimal }==\text { yes } \\
& x^{\prime}(G)=4=\Delta(G) \\
& x^{\prime}(G)=\Delta(G) \text { or } \Delta(G)+I
\end{aligned}
$$

