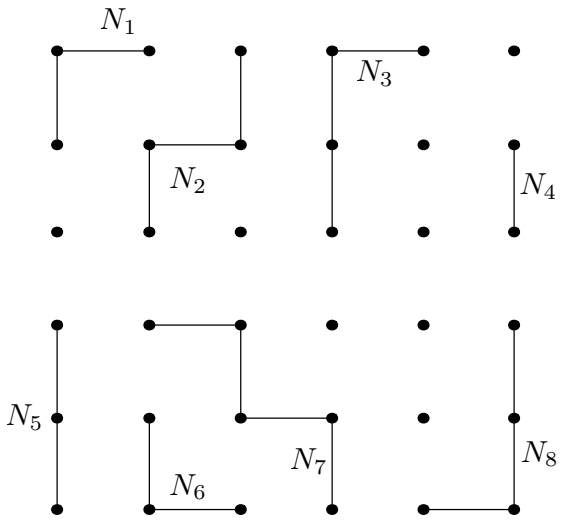
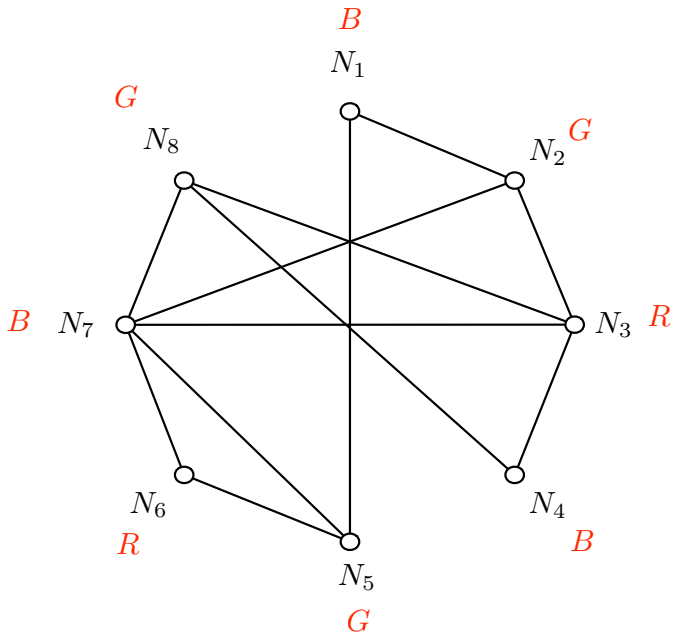
▶ **Review Exercise 13-16**

Draw the line-of-sight graph associated with the net pattern shown below. Determine $\chi(G)$ and find a corresponding partition of the nets.



Solution. The line-of-sight graph G will have chromatic number 3. To see why, not that N_3, N_7 and N_8 must be assigned different colors, say R, B, G, respectively. Then N_2 and N_5 can be colored G, and N_1 and N_4 can be colored B. Finally, N_6 can be colored R. The partition of nets is $\{N_1, N_4, N_7\}$, $\{N_2, N_5, N_8\}$, $\{N_3, N_6\}$.



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