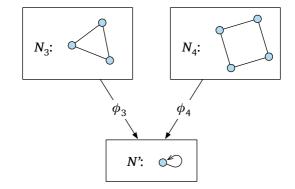
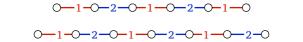


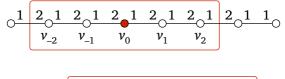
$$N'$$
:  $\begin{pmatrix} x, 1 \\ x, 2 \\ x, 3 \end{pmatrix}$ 

G:

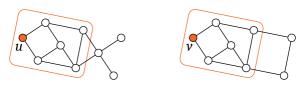


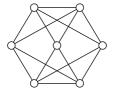


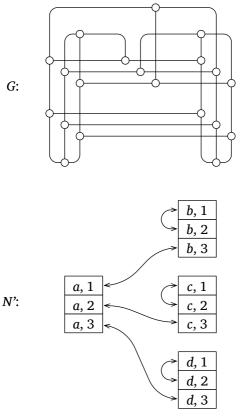
$$\bigcirc \frac{1}{} \stackrel{2}{\sim} \frac{1}{} \stackrel{2}{\sim} \frac{1}{} \stackrel{2}{\sim} \frac{1}{} \stackrel{2}{\sim} \frac{1}{} \stackrel{2}{\sim} \frac{1}{} \stackrel{2}{\sim} \frac{1}{} \stackrel{1}{\sim}$$

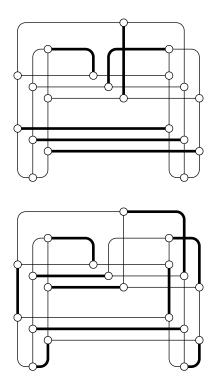


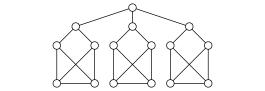
$$\bigcirc \frac{1 \quad 2}{U_{-2}} \bigcirc \frac{1 \quad 2}{U_{-1}} \bigcirc \frac{1 \quad 2}{U_{0}} \bigcirc \frac{1 \quad 2}{U_{0}} \bigcirc \frac{1 \quad 2}{U_{1}} \bigcirc \frac{1}{U_{0}} \bigcirc \frac{1}{U_{1}} \bigcirc \frac{1}{U_{0}} \bigcirc \frac{1$$

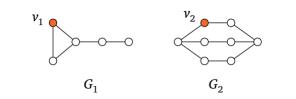


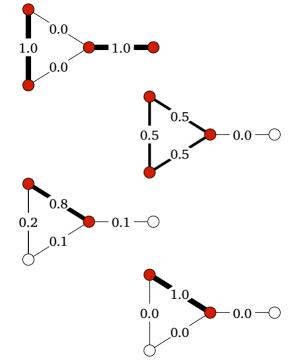


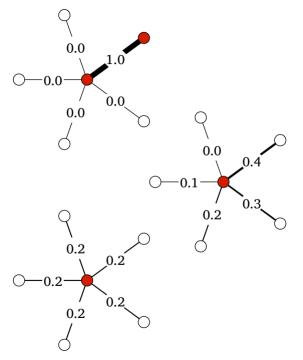


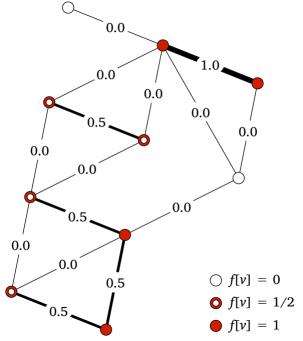


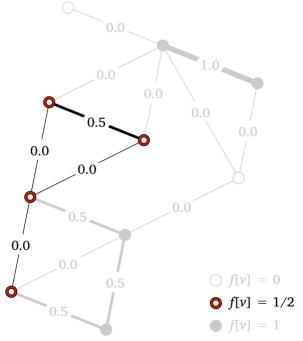


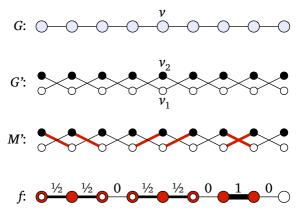


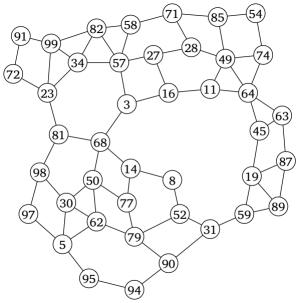


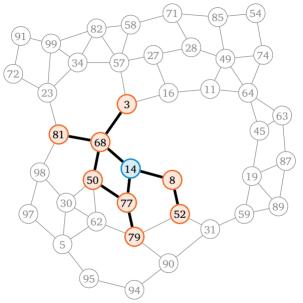


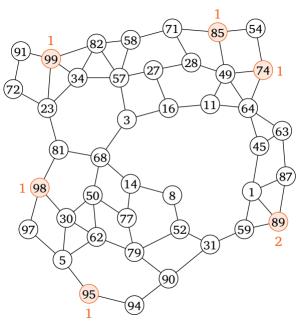


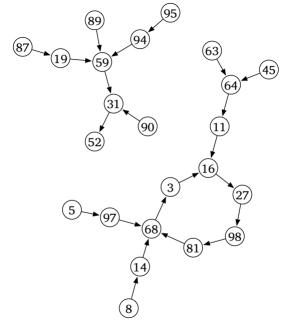


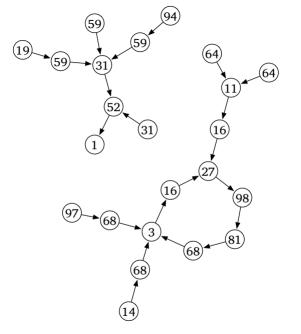


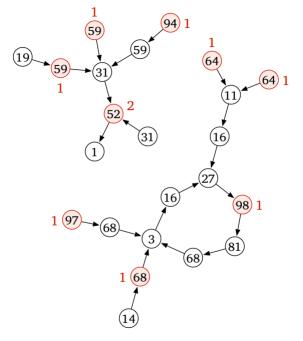


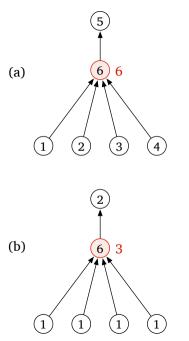


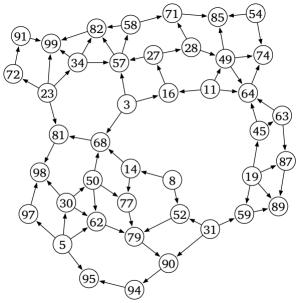


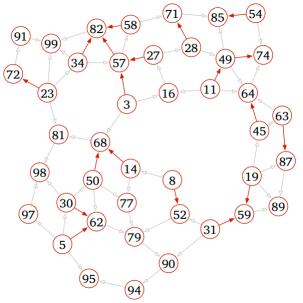


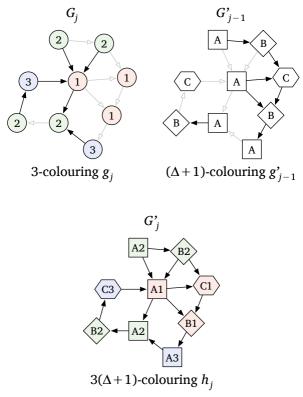


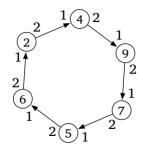












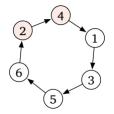
$$f: \begin{cases} \{1,2,3\} \mapsto 1 & \{1,2,4\} \mapsto 1 & \{1,2,5\} \mapsto 1 \\ \{1,2,6\} \mapsto 2 & \{1,2,7\} \mapsto 1 & \{1,3,4\} \mapsto 1 \\ \{1,3,5\} \mapsto 1 & \{1,3,6\} \mapsto 1 & \{1,3,7\} \mapsto 1 \\ \{1,4,5\} \mapsto 1 & \{1,4,6\} \mapsto 2 & \{1,4,7\} \mapsto 1 \\ \{1,5,6\} \mapsto 1 & \{1,5,7\} \mapsto 1 & \{1,6,7\} \mapsto 2 \\ \{2,3,4\} \mapsto 2 & \{2,3,5\} \mapsto 1 & \{2,3,6\} \mapsto 1 \\ \{2,3,7\} \mapsto 1 & \{2,4,5\} \mapsto 2 & \{2,4,6\} \mapsto 1 \\ \{2,4,7\} \mapsto 2 & \dots & \{4,5,6\} \mapsto 2 \\ \{4,5,7\} \mapsto 1 & \dots & \{5,6,7\} \mapsto 1 \end{cases}$$

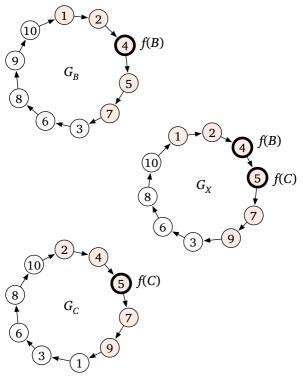
$$f_2: \begin{cases} \{2,3\} \mapsto 1 & \{2,4\} \mapsto 1 & \{2,5\} \mapsto 1 \\ \{2,6\} \mapsto 2 & \{2,7\} \mapsto 1 & \{3,4\} \mapsto 1 \\ \{3,5\} \mapsto 1 & \{3,6\} \mapsto 1 & \{3,7\} \mapsto 1 \\ \{4,5\} \mapsto 1 & \{4,6\} \mapsto 2 & \{4,7\} \mapsto 1 \\ \{5,6\} \mapsto 1 & \{5,7\} \mapsto 1 & \{6,7\} \mapsto 2 \end{cases}$$

$$X_2 = \{2,3,4,5,7\}, \text{ monochromatic in } f_2$$

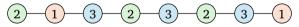
$$W_2 = \{2,4,5,7\}, \text{ almost monochromatic in } f$$

 $W_2 = \{2,4,5,7\}$ , almost monochromatic in f $W = \{1,2,4,5,7\}$ , almost monochromatic in f



















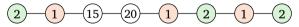




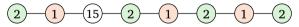


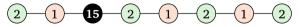


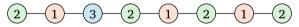




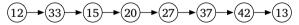






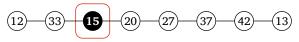


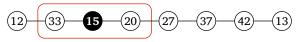


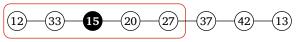


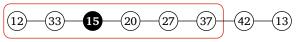




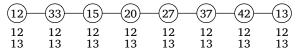


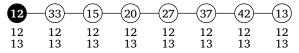


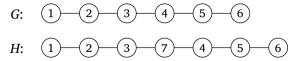


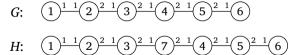


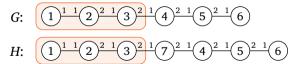


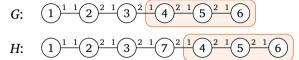


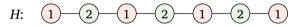


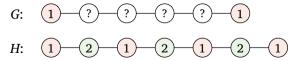












$$f(x_1, x_2, x_3, x_4, x_5)$$

$$(x_1) \rightarrow (x_2) \rightarrow (x_3) \rightarrow (x_4) \rightarrow (x_5)$$

