

1. **Asynchronous automata.** Draw the asynchronous automaton the following Boolean model:

$$(f_1, f_2, f_3, f_4) = (\textcolor{blue}{x_2 \wedge \overline{x_3}}, \textcolor{red}{\overline{x_1}}, \textcolor{green}{x_3 \vee x_4}, \textcolor{purple}{x_1 + x_2}).$$

Then, partition the nodes into strongly connected components, and draw the acyclic directed graph formed by collapsing the SCCs into single nodes. Find the attractors and classify them by type: fixed point, cyclic attractor, or complex attractor. The Boolean lattice B_4 is shown below.

