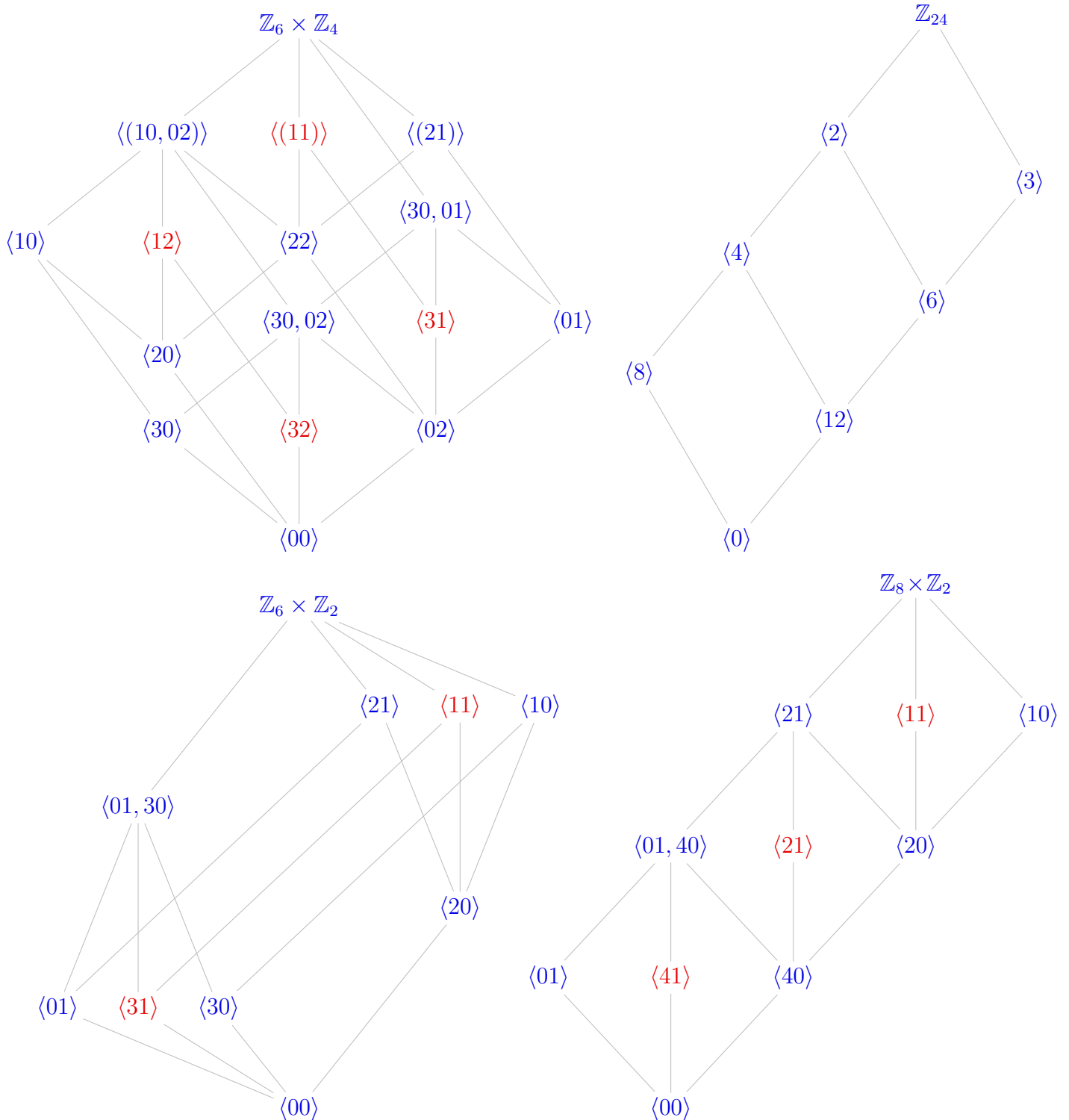


Scratch paper for Math 8510, HW 11

#4(a), 5(c): Subring lattices, annotated with arrows $I \rightarrow \sqrt{I}$ from each ideal to its radical, and labeled with the nilradical of the quotient, $\mathfrak{N}_{R/I} = \sqrt{I}/I$.



#4(b): Subring lattices, annotated with arrows $I \rightarrow \text{jac}(I)$ from each ideal to its Jacobson radical.

