

2.52 *Figure 2.68 shows two circuits in which the inputs of the circuits are unlabeled.

- Determine whether the two circuits are equivalent. Hint: Try all possible labellings of the inputs for both circuits.
- How many circuit comparisons will you need to perform to determine if two circuits with 10 unlabeled inputs are equivalent?

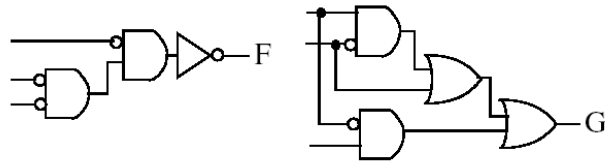


Figure 2.68: Combinational circuits F and G .