```
// Assume n holds the length of arr
1.3
     double fast_product(double *arr, int n) {
         double product = 1;
  3
         #pragma omp parallel for
         for (int i = 0; i < n; i++) {
             product *= arr[i];
         return product;
     }
      (a) What is wrong with this code?
         The code has the shared variable product.
      (b) Fix the code using #pragma omp critical
         double fast_product(double *arr, int n) {
             double product = 1;
             #pragma omp parallel for
             for (int i = 0; i < n; i++) {
                  #pragma omp critical
                  product *= arr[i];
             return product;
         }
      (c) Fix the code using #pragma omp reduction(operation: var).
         double fast_product(double *arr, int n) {
             double product = 1;
             #pragma omp parallel for reduction(*: product)
             for (int i = 0; i < n; i++) {
                  product *= arr[i];
             }
             return product;
         }
         Logic Gates
2.1
     Label the following logic gates:
```



NOT, AND, OR, XOR, NAND, NOR, XNOR

- 2.2 Convert the following to boolean expressions:
 - (a) NAND