```
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;
```

// Assume n holds the length of arr

double product = 1;

#pragma omp parallel for

double fast_product(double *arr, int n) {

1.3

3

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

2.2 3Convert the following to boolean expressions:

Logic Gates

Label the following logic gates:

(a) NAND