CS-150 Worksheet 3
Gates and Circuits

This worksheet is about getting familiar with logic gates and circuits.

☐ Task 3.1 − Circuit Diagrams

- Draw the following circuit diagrams (note there are different notations!):

    i. $(A$ AND $B)$ OR C

    ii. $AB + C$

    iii. $(A + BC) + D'$

    iv. $(A$ XOR $B)$ NAND C

    v. $(A$ OR $B)$ AND $(C$ NOR $A)$

☐ Task 3.2 − Truth Tables

- Write the truth table for each of the above expressions.

☐ Task 3.3 − Boolean Expressions

- Give the boolean expressions for each of the following: