

1. Show A and B in 4-bit binary format.

$A = 12, B = 9.$

① $(A)_2 = 1100$

② $(B)_2 = 1001$

2. Negative number representation:

$A = 12 B = -12$ Represent A and B in

i. Signmagnitude form:

③ $A = 01100 \quad B = 11100$

ii. 2's complement form:

④ $A = 01100 \quad B = 10100$

3. BCD representation:

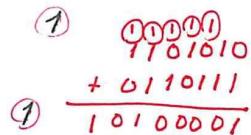
$A = 415:$

⑤ $0100.0001.0101$

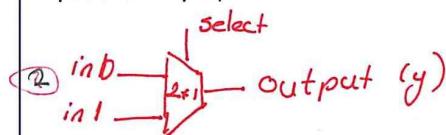
$B = 376:$

⑥ $0011.0111.0110$

4. Show binary addition on "1101010" and "0110111". Encircle "carry" bits

⑦ 

5. Draw the symbol of a 2x1 Mux. (Name all input and output)



⑨ $y = \text{selected}.in0 + \text{selected}.in1$

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