

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

A = 12, B = 9.

① $(A)_2 = 1100$

① $(B)_2 = 1001$

2. Negative number representation:

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

i. Signmagnitude form:

① $A = 01100$ ① $B = 11100$

ii. 2's complement form:

① $A = 01100$ ① $B = 10100$

3. BCD representation:

A = 415:

② $0100 . 0001 . 0101$

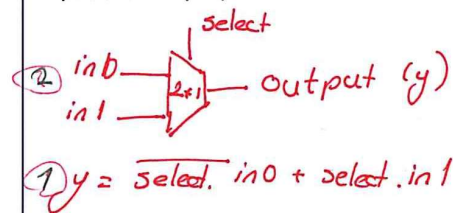
B = 376:

② $0011 . 0111 . 0110$

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

$$\begin{array}{r}
 1101010 \\
 + 0110111 \\
 \hline
 10100001
 \end{array}$$

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



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