

# Chapter 1 (Home work)

$P$  = I will go france

$Q$  = I will learn french

- 1) A. I will not go france and I will learn french.
- B. I will not go france or I will learn french.
- C. I will go france or I will not learn french.
- D. I will go france and I will not learn french.
- E. I will go france if I will not learn french.
- F. I will learn french I will go france.

2)  $P = X \geq 6$

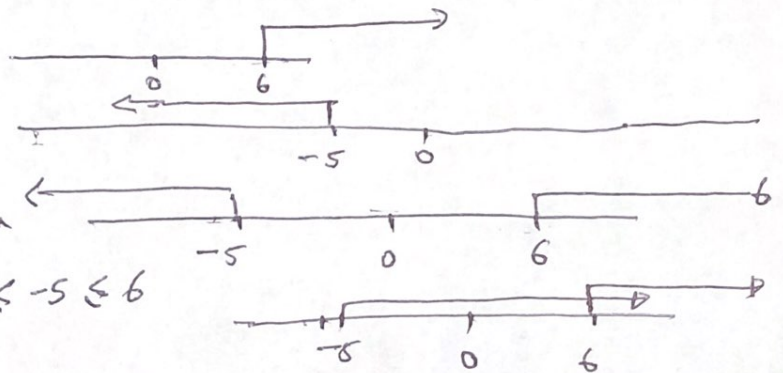
$Q = X < -5$

A)  $\sim P = \bar{P} = X < 6$

B)  $\sim Q = \bar{Q} = X \geq -5$

C)  $P \wedge Q = P \cdot Q = \text{No solution}$

D)  $P \vee \sim Q = P + \bar{Q} = X \leq -5 \leq 6$



3)  $\overline{A + BC + AB}$

$\overline{A + BC} \cdot \overline{AB}$

$\overline{A + BC} \cdot A \bar{B}$

$A \cdot A \bar{B} + B \cdot C \cdot A \bar{B}$

$A \cdot \bar{B} + 0$

$A \cdot \bar{B}$

