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5) Let Polenote statement "Weather is nice" and Q denotes
"We have a Picnic". Translate the foll symbolic
statements in English statements.

a) phospher is nice and we do not have a picnic.

b) p 2-> q > It is necessary that weather is nice and it is sufficient that we have a picnic.

) \$ → p → q → If weather is not nice then we do not have picnic

d) (p/q) V (p/q)

> Either it is not the case that weather is not nice or we have a picnic or weather is nice and we do not have a picnic.



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6) Consider the foll conditioned statement?

If the flood destroys my house or the fires destroy my house, then my insurance company will pay me.

Converse

→ If my insurance company pay me, then flood will destory my house or fires destroy my house.

Inverse

Fires do not destroy my house or the company will not pay me.

Contrapositive

If my insurance company will not pay me then my house is not destroy by flood or my house is not destroyed by fires.

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then it realling that sense that weather is not a sure some a proper is not the sense that is not sens as the sense as the