Consider the following statements:

- P It is snowing.
- Q The bus is late.
- $R\,$ I miss the bus.
- ${\cal S}\,$ I am hungry.
- $T\,$ I go to Subway.

Write the following sentences using P, Q, R, S, T and connectives or vice-versa:

I missed the bus because it wasn't late.

Snowing is sufficient for the bus to be late.

NOT $(T \implies S)$

I am hungry so I will go to Subway even though it is snowing.

 $T \implies R$

 $(Q \text{ AND } S) \implies T$

I will go to Subway and miss the bus because I am hungry.

It is necessary that the bus be late for me to not miss it.

 $(R \text{ OR } S) \implies T$

 $(P \text{ OR NOT } P) \implies Q$