1. If not all dogs are Labradors then some dogs are not yellow.
   D: {1} is a dog. L: {1} is a Labrador. N: {1} is yellow.

$\sim\forall x(Dx\rightarrow Lx) \rightarrow \exists x(Dx\wedge\sim Nx)$

$\exists x(Dx\wedge\sim Lx) \qquad \sim\forall x(Dx\rightarrow Nx)$

2. An experience being unpleasant is sufficient for it to be undesirable, and it being pleasant is necessary for it to be repeated.
   A: {1} is an experience. B: {1} is pleasant. D: {1} is desirable. G: {1} is repeated.

$\forall x(Ax\rightarrow(\sim Bx\rightarrow\sim Dx)\wedge(Gx\rightarrow Bx))$

Can split this into two sentences with $\forall x(Ax\rightarrow$ for both

3. A student that is not prepared will pass the exam only if they are lucky; however,