

Name: \_\_\_\_\_

Pid: \_\_\_\_\_

1. (10 points) Derive  $(A \wedge B) \implies C$  from  $A \implies (B \implies C)$  using natural derivations.

2. (10 points) Derive  $A \vee B$  from  $X \vee A$  and  $\neg X \vee B$  using natural derivations.