

Assignment #2 due today by 5pm.

Assignment #3 due Friday 9/16 by 5pm

$$\left( (F \wedge G') \vee (G \wedge F') \right) \longleftrightarrow (F \vee G) \wedge (F \wedge G)'$$

$$(F \vee G) \wedge (F \wedge G)' \xleftrightarrow{\text{De Morgan}} (F \vee G) \wedge (F' \vee G') \xleftrightarrow[\text{x4}]{\text{distribution}} (F \wedge F') \vee (F \wedge G') \vee (G \wedge F') \vee (G \wedge G')$$

$$\xleftrightarrow{\text{complement}} \mathcal{O} \vee (F \wedge G') \vee (G \wedge F') \vee \mathcal{O} \xleftrightarrow{\text{Identity}} (F \wedge G') \vee (G \wedge F')$$