

Logic Homework – Day Eleven

BRADLEY RETTLER

MARCH 24, 2016

Section 5.2: II: 2, 6, 9, 15. III: 5, 9, 14, 15, 18, 20.

Section 5.2: II: 2. $N \bullet L$

Section 5.2: II: 6. $N \supset A$

Section 5.2: II: 9. $(\sim H) \vee W$ OR $\sim (H \vee W)$

Section 5.2: II: 15. $C \bullet (L \supset (W \vee A))$

Section 5.2: III: 5. $T \supset (\sim F)$

$T \supset T$

T

Section 5.2: III: 9. $\sim T \equiv F$

$F \equiv F$

T

Section 5.2: III: 14. $\sim (F \vee \sim T) \bullet (\sim F \vee T)$

$\sim (F \vee F) \bullet (T \vee T)$

$(\sim F) \bullet T$

$T \bullet T$

T

Section 5.2: III: 15. $(F \supset T) \bullet \sim (T \supset \sim F)$

$T \bullet \sim (T \supset T)$

$T \bullet \sim T$

$T \bullet F$

F

Section 5.2: III: 18. $\sim [(T \vee \sim T) \bullet \sim (F \vee \sim F)]$

$\sim [(T \bullet \sim (T))]$

$\sim F$

T

Section 5.2: III: 20. $(F \supset F) \supset [(T \equiv \sim F) \bullet \sim (T \vee \sim T)]$

$T \supset (T \bullet \sim T)$

$T \supset F$

F