## Homework 5

6. (¬q) → ((p vq) → p)

[p] [¬p] [q] [¬q]

[pvq] 

VE4

$$\frac{\left[\rho \vee q\right]^{2} \frac{\left[\rho\right] \left[-\rho\right]}{\bot} \frac{\left[q\right] \left[-q\right]}{\bot} \vee E_{q}$$

$$\frac{\left[\rho \wedge h\right]}{\left(\rho \vee q\right) \rightarrow \rho} \rightarrow \frac{1}{2}$$

$$\frac{\left[\rho \wedge h\right]}{\left(-q\right) \rightarrow \left(\left(\rho \vee q\right) \rightarrow \rho\right)} \rightarrow \frac{1}{2}$$

$$\frac{\left[\rho \wedge h\right]}{\bot} \wedge E_{p} \wedge E_{p}$$

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$$\frac{\frac{1}{-\rho} - 1}{(-(\rho \vee q))} \xrightarrow{\frac{1}{-\rho} - \frac{1}{-\rho}} \wedge 1$$

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$$\frac{1}{(-(\rho \vee q))} \xrightarrow{\frac{1}{-\rho} - \frac{1}{-\rho}} \xrightarrow{\frac{1}{-\rho} - \frac{1}{-\rho}} \xrightarrow{\frac{1}{-\rho} - \frac{1}{-\rho}} \wedge 1$$

$$\frac{1}{(-(\rho \vee q))} \xrightarrow{\frac{1}{-\rho} - \frac{1}{-\rho}} \wedge 1$$

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16. ((p > q) -> p) -> p	[ρ] [-ρ]
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[ (p-q) -p]	ρ -
~ · · · · ·	[7] - =
	1 RAAZ
	ρ
(Cp-	$(p,q) \rightarrow p$ $\rightarrow p$