$$F = \{ A \to B, B \to C \}$$

$$F \models A \to C$$

entails (imply)

$\forall r(e)$ that $F \Rightarrow$ that $A \to C$

Đg' $F \vDash A \to C$

AN

- fđg'
- Toàn kép

qt ⇒ kl

quá khứ kl sai (7 kl)

qt ⇒ ⇒ mâu thuẫn qt

⇒ Đ/p

$$F = \{ A \to BC \,,\; C \to D \}$$

$$F \models A \to D$$

1.e $\{A \to BC,\ C \to D\} \models A \to D$

[illegible]

$\exists (t_1, t_2) :\ t_1.A = t_2.A,\ t_1.D \neq t_2.D$

- $t_1.C \neq t_2.C \Rightarrow t_1.BC \neq t_2.BC$

  Vf $A \to BC$.

- $t_1.C = t_2.C,\ t_1.D \neq t_2.D$ Vf $C \to D$

th... : $A \to D$ ■

e.tep $\{A \to BC,\ C \to D\} \models A \to D$

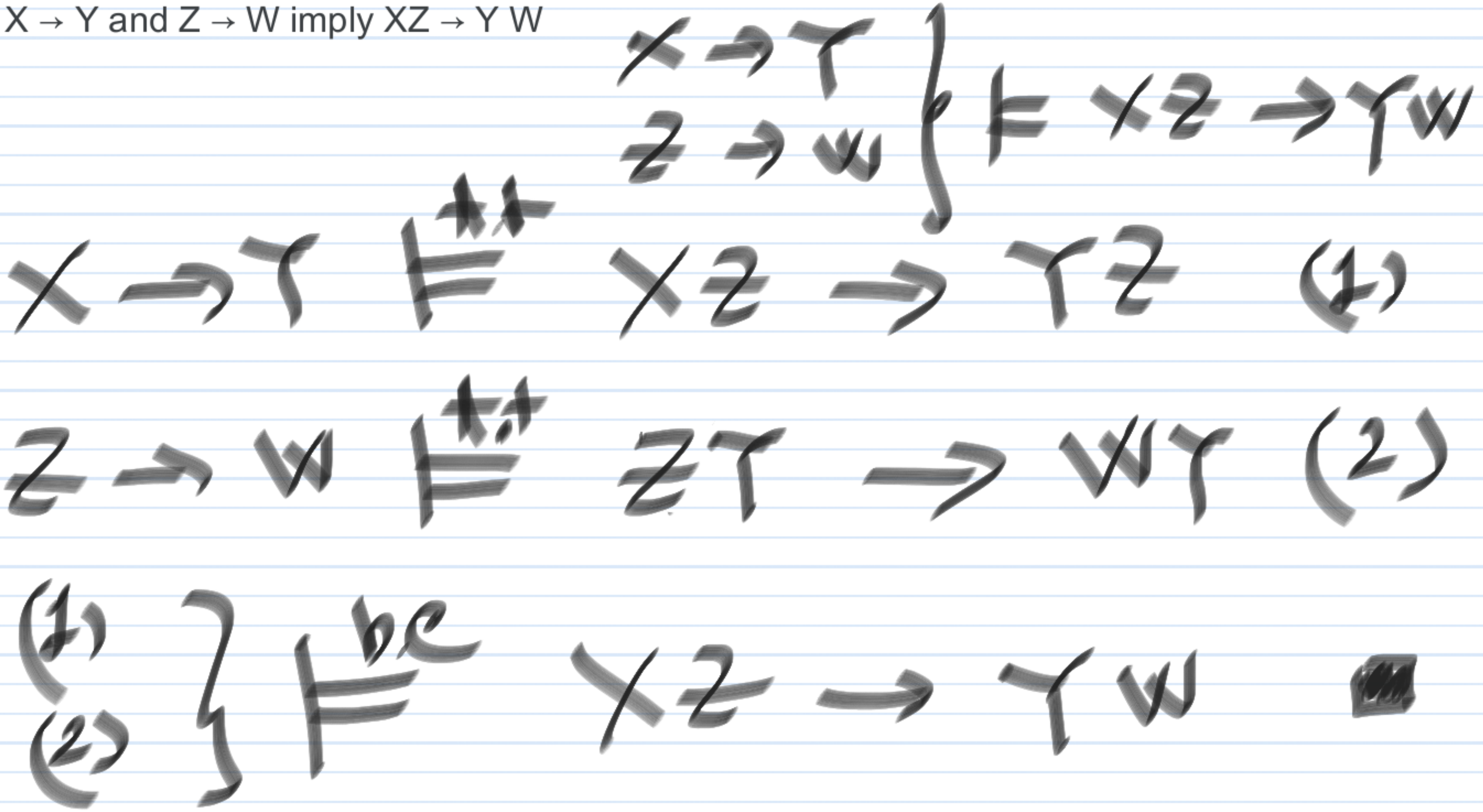
$\forall (t_1, t_2) \in \forall r(R) : t_1.A = t_2.A$

$\overset{A \to BC}{\Longrightarrow} t_1.BC = t_2.BC \Longrightarrow t_1.C = t_2.C$

$\overset{C \to D}{\Longrightarrow} t_1.D = t_2.D$

WooDN: $A \to D$ ∎

a) X → Y and Z → W imply XZ → Y W



1. Phản xạ: $Y \subseteq X$ $\models^{id_X}$ $X \to Y$

2. Tăng trưởng: $X \to Y$ $\models^{tt}$ $XZ \to YZ$

3. Bắc cầu: $\left.\begin{matrix} X \to Y \\ Y \to Z \end{matrix}\right\} \models^{bc}$ $X \to Z$

4. hội: $\left.\begin{array}{l} X \to Y \\ X \to Z \end{array}\right\} \models^{h} X \to YZ$

5. bc giả: $\left.\begin{array}{l} X \to Y \\ YW \to Z \end{array}\right\} \models^{bc} XW \to Z$

6. fân rã: $X \to YZ \models^{fr} \left\{\begin{array}{l} X \to Y \\ X \to Z \end{array}\right.$