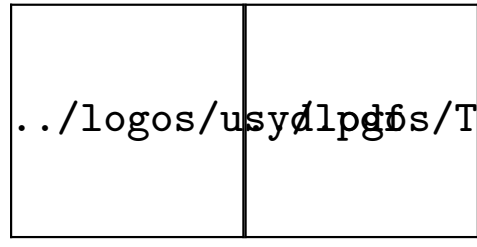

../logos/usyd.pdf
../logos/TUM.pdf

$\leq$, $\leq$

$\rightsquigarrow$

$\leq$, $\leq$

$\rightsquigarrow$

$$\bigwedge \leq \wedge \bigwedge - \leq \_ \wedge \bigwedge_{,} - \leq \_$$

$\leq$, $\leq$

$\rightsquigarrow$

$$\bigwedge \leq \wedge \bigwedge - \leq \_ \wedge \bigwedge_{,} - \leq \_$$

$\rightsquigarrow$

$\in \{-,,\}^{\times} -$

$$\gamma() := \{\ \in \mathbb{Z} \mid\ \leq \} \qquad \in \overline{\mathbb{Z}}$$

$$\alpha() :=\ \{\ \in \overline{\mathbb{Z}} \mid \gamma() \supseteq \} \qquad \subseteq \mathbb{Z}$$

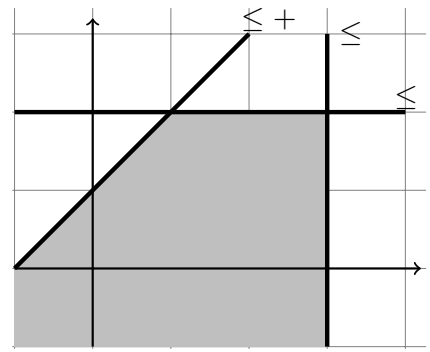
$\rightsquigarrow$

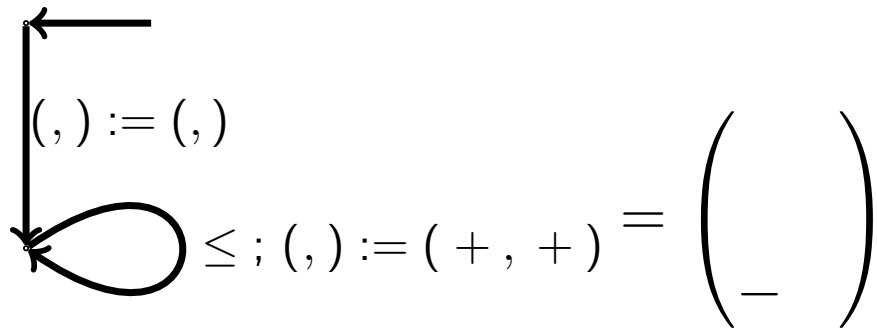
$\in \{-,,\}^{\times}-$

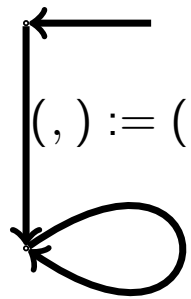
$$\gamma() := \{\ \in \mathbb{Z} \mid\ \leq \} \qquad \in \overline{\mathbb{Z}}$$
$$\alpha() :=\ \{\ \in \overline{\mathbb{Z}} \mid \gamma() \supseteq \} \qquad \subseteq \mathbb{Z}$$

$$= \begin{pmatrix} \\ - \end{pmatrix}$$

$$\gamma\left(\left()\right)\right) = \left\{\left() \in \mathbb{Z} \mid \left() \leq \left()\right)\right\} =$$

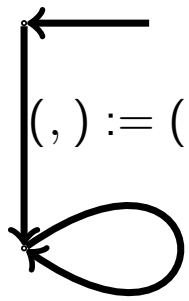






$$= \begin{pmatrix} & \\ _{-} & \end{pmatrix}$$

$$\gamma\left(\begin{pmatrix}\infty\\ \infty\\ \infty\end{pmatrix}\right) = \left\{ () \mid \begin{pmatrix} & \\ _{-} & \end{pmatrix} () \leq \begin{pmatrix}\infty\\ \infty\\ \infty\end{pmatrix} \right\}$$



$$= \begin{pmatrix} & \\ _{-} & \end{pmatrix}$$

$$\gamma\left(\begin{pmatrix}\infty\\ \infty\\ \infty\end{pmatrix}\right) = \left\{ () \mid \begin{pmatrix} & \\ _{-} & \end{pmatrix} () \leq \begin{pmatrix}\infty\\ \infty\\ \infty\end{pmatrix} \right\}$$

$$\gamma\left(\begin{pmatrix}\\ \\ \end{pmatrix}\right) = \left\{ () \mid \begin{pmatrix} & \\ _{-} & \end{pmatrix} () \leq \begin{pmatrix}\\ \\ \end{pmatrix} \right\}$$

-
- $= + = +$

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- $= + = +$
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- $= + = +$
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- $= + = +$
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- $= + = +$
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- $= + = +$
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- $= + \cdots + +$

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- $= + = +$
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-
- $= + \cdots + +$
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-
- $= + = +$
-
-
- $= + \cdots + +$
-
-

$$\leq \wedge ' = +$$

$$\leq \ \wedge \ ' = \ +$$

$$\leq \ \wedge \ ' = \ + \ (\ ) = \{ ' \mid \ \in \ \wedge \ \leq \ \wedge ' = \ + \ \}$$

$$\leq \ \wedge \ ' = \ +$$

$$\leq \ \wedge \ ' = \ + \left(\right) = \{ ' \mid \ \in \ \wedge \ \leq \ \wedge ' = \ + \}$$

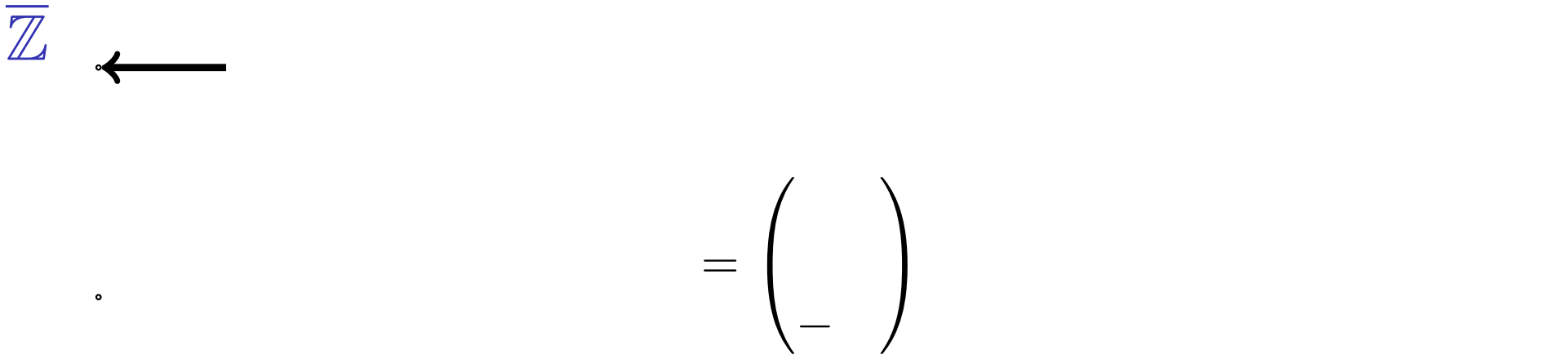
$$\leq \ \wedge \ ' = \ + ^{\sharp} \left(\right) = \alpha (\ \leq \ \wedge \ ' = \ + \left(\gamma ( ) \right))$$

$\overline{\mathbb{Z}}$

-

-

$$= \begin{pmatrix} & \\ - & \end{pmatrix}$$

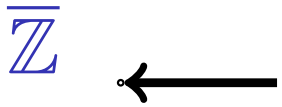


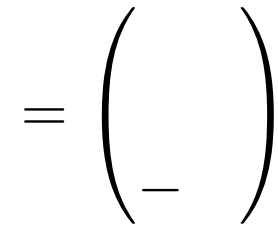
$\overline{\mathbb{Z}}$ $\longleftarrow$

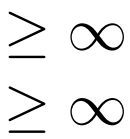
$\circ$

$$= \begin{pmatrix} \\ - \end{pmatrix}$$

$\geq \infty$







$\overline{\mathbb{Z}}$ $\leftarrow$

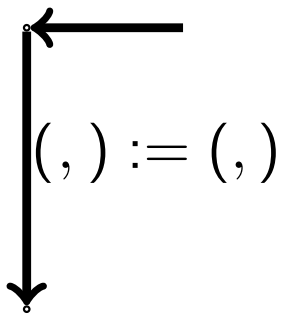
$$= \begin{pmatrix} \\ - \end{pmatrix}$$

$\geq \infty$

$\geq \geq \infty$

$\geq \infty$

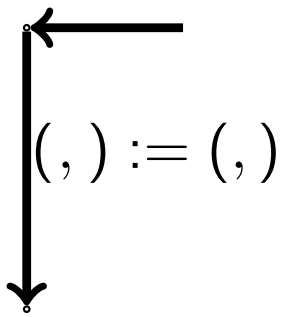
$\overline{\mathbb{Z}}$



$$= \begin{pmatrix} & \\ - & \end{pmatrix}$$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\overline{\mathbb{Z}}$



$$= \begin{pmatrix} \\ - \end{pmatrix}$$

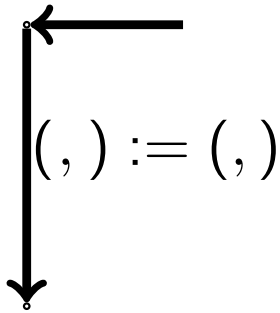
$\geq \infty$

$\geq \infty$

$\geq \infty$

$\geq \pi((,) := (,)^{\sharp}(,,))$

$\overline{\mathbb{Z}}$

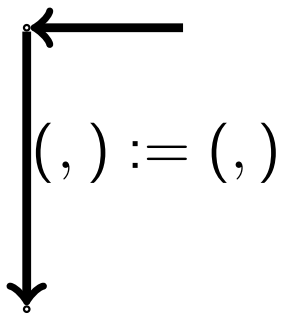


$$= \begin{pmatrix} \\ - \end{pmatrix}$$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,\,))$
$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,\,))$

$\overline{\mathbb{Z}}$

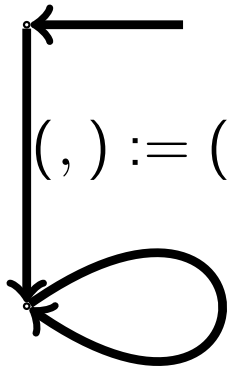


$$= \begin{pmatrix} \\ _{-} \end{pmatrix}$$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,\,))$
$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,\,))$
$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,\,))$

$\overline{\mathbb{Z}}$



$(\,,\,) := (\,,\,)$

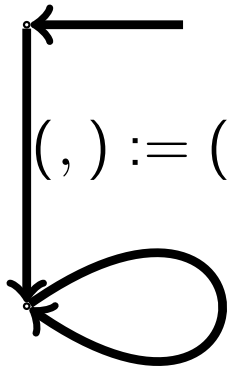
$\leq\,;\,(\,,\,) := (\,+\,,\,+\,)$

$= \begin{pmatrix} \\ \_ \end{pmatrix}$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,))$
$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,))$
$\geq \pi((\,,\,) := (\,,\,)^{\sharp}(\,,\,,))$

$\overline{\mathbb{Z}}$



$(\ ,\ ) := (\ ,\ )$

$\leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )$

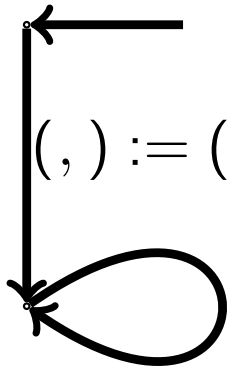
$= \begin{pmatrix} \\ _{-} \end{pmatrix}$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$

$\geq \pi(\ \leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )^{\sharp}(\ ,\ ,\ ))$

$\overline{\mathbb{Z}}$



$(\ ,\ ) := (\ ,\ )$

$\leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )$

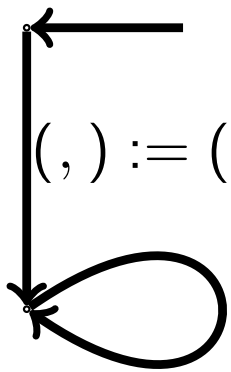
$= \begin{pmatrix} \\ _{-} \end{pmatrix}$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$

$\geq \pi(\ \leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi(\ \leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )^{\sharp}(\ ,\ ,\ ))$

$\overline{\mathbb{Z}}$



$(\ ,\ ) := (\ ,\ )$

$\leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )$

$= \begin{pmatrix} \\ _{-} \end{pmatrix}$

$\geq \infty$
$\geq \infty$
$\geq \infty$

$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi((\ ,\ ) := (\ ,\ )^{\sharp}(\ ,\ ,\ ))$

$\geq \pi(\ \leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi(\ \leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )^{\sharp}(\ ,\ ,\ ))$
$\geq \pi(\ \leq\ ;\ (\ ,\ ) := (\ +\ ,\ +\ )^{\sharp}(\ ,\ ,\ ))$

$$\pi(\ \leq\ \ \wedge\ '=\ +\ ^{\sharp}())$$

$$\begin{aligned}
&\pi(\ \leq\ \ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \ \wedge\ '=\ +\left(\gamma()\right)))
\end{aligned}$$

$$
\begin{aligned}
&\pi(\ \leq\ \ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \ \wedge\ '=\ +\left(\gamma()\right)))\\
=\ &\pi(\alpha(\ \leq\ \ \wedge\ '=\ +\left(\{\in\mathbb{Z}\mid\ \leq\}\right)))
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \leq,\ \wedge\ '=\ +\,\}))
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \leq,\ \wedge\ '=\ +\,\}))\\
=\ &\pi(\alpha(\{+\ \mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}))
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \leq,\ \wedge\ '=\ +\,\}))\\
=\ &\pi(\alpha(\{+\mid\in\mathbb{Z}\ \wedge\ \leq(,)\}))\\
=\ &\ \{(+)\mid\in\mathbb{Z}\ \wedge\ \leq(,)\}
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \ \wedge\ '=\ +\ (\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \ \wedge\ '=\ +\ (\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \ \leq,\ \ \wedge\ '=\ +\,\}))\\
=\ &\pi(\alpha(\{+\ \mid\ \in\mathbb{Z}\ \wedge\ \ \leq(,)\}))\\
=\ &\ \{(+)\mid\ \in\mathbb{Z}\ \wedge\ \ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{Z}\ \wedge\ \ \leq(,)\}
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\,\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \leq,\ \wedge\ '=\ +\,\}))\\
=\ &\pi(\alpha(\{+\ \mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}))\\
=\ &\ \{(+)\mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{R}\ \wedge\ \leq(,)\}
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \wedge\ '=\ +^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\,(\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \leq,\ \wedge\ '=\ +\,\}))\\
=\ &\pi(\alpha(\{+\ \mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}))\\
=\ &\ \{(+)\mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{R}\ \wedge\ \leq(,)\}\\
=\ &+\ \{((,))^{\top}\mid\ \in\mathbb{R}_{\geq}\wedge\ ^{\top}=()^{\top}\}
\end{aligned}
$$

$$
\begin{aligned}
&\pi(\ \leq\ \wedge\ '=\ +\ ^{\sharp}())\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\ (\gamma())))\\
=\ &\pi(\alpha(\ \leq\ \wedge\ '=\ +\ (\{\in\mathbb{Z}\mid\ \leq\}\,)))\\
=\ &\pi(\alpha(\{'\mid,'\in\mathbb{Z}\ \wedge\ \leq,\ \wedge\ '=\ +\,\}))\\
=\ &\pi(\alpha(\{+\ \mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}))\\
=\ &\ \{(+)\mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{Z}\ \wedge\ \leq(,)\}\\
=\ &+\ \{\mid\ \in\mathbb{R}\ \wedge\ \leq(,)\}\\
=\ &+\ \{((,))^{\top}\mid\ \in\mathbb{R}_{\geq}\wedge\ ^{\top}=()^{\top}\}\\
=\ &+\ \{((,))^{\top}\mid\ \in\mathbb{Z}_{\geq}\wedge\ ^{\top}=()^{\top}\}
\end{aligned}
$$

$$\pi(\ \leq\ \wedge\ '=\ +\ ^{\sharp}())$$
$$=\ +\ \{((,))^{\top}\mid\ \in\mathbb{Z}_{\geq}\wedge\ ^{\top}=()^{\top}\}$$

$$\pi(\ \leq\ \wedge\ '=\ +\ ^{\sharp}())$$
$$=\ +\ \{((,))^{\top}\mid\ \in\mathbb{Z}_{\geq}\wedge\ ^{\top}=()^{\top}\}$$

$$\pi\circ\ \leq\ \wedge\ '=\ +\ ^{\sharp}:\overline{\mathbb{Z}}\to\overline{\mathbb{Z}}$$

$$\pi(\ \leq\ \wedge\ '=\ +\ ^{\sharp}())$$
$$=\ +\ \{((,))^{\top}\mid\ \in\mathbb{Z}_{\geq}\wedge\ ^{\top}=()^{\top}\}$$

$$\pi\circ\ \leq\ \wedge\ '=\ +\ ^{\sharp}:\overline{\mathbb{Z}}\to\overline{\mathbb{Z}}$$
$$\overline{\mathbb{Z}}\to\overline{\mathbb{Z}}$$

$$\pi(\ \leq\ \wedge\ '=\ +\ ^{\sharp}())$$
$$=\ +\ \{((,))^{\top}\mid\ \in\mathbb{Z}_{\geq}\wedge\ ^{\top}=()^{\top}\}$$

$\pi\circ\ \leq\ \wedge\ '=\ +\ ^{\sharp}:\overline{\mathbb{Z}}\to\overline{\mathbb{Z}}$

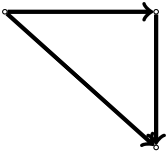
$\overline{\mathbb{Z}}\to\overline{\mathbb{Z}}$

$\rightsquigarrow$

$\rightsquigarrow\mathcal{O}(\ \cdot\ \cdot(\ +\ \cdot\ ))$

$$^{\top}\begin{pmatrix} \\ \\ \end{pmatrix}$$

$$\begin{pmatrix} & & - \\ & & \\ - & - & \end{pmatrix}\begin{pmatrix} \\ \\ \end{pmatrix} = \begin{pmatrix} \\ \\ \end{pmatrix} \qquad \begin{pmatrix} \\ \\ \end{pmatrix} \geq$$



$$^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} +$$
$$^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-)$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq -) \; ? \; \{^{+}, \}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq -) \; ? \; {}^{-}$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \; \& \; {}^{+} \geq) \; ? \; \{^{+}, \}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \; \& \; {}^{+} \geq) \; ? \; \{^{-}, \}$$

$^{+}$	∞						
$^{-}$	∞						
$^{+}$	∞						
$^{-}$	∞						
$^{+}$	∞						
$^{-}$	∞						

$$
\begin{array}{l}
{}^{+}\geq -\infty^{+}\geq {}^{+}\geq {}^{+}+ \\
{}^{-}\geq -\infty^{-}\geq {}^{-}\geq {}^{-}+(-) \\
{}^{+}\geq -\infty^{+}\geq ({}^{-}\geq -)\,?\,\{{}^{+},\} \\
{}^{-}\geq -\infty^{-}\geq ({}^{-}\geq -)\,?\,{}^{-} \\
{}^{+}\geq -\infty^{+}\geq ({}^{-}\geq -\;\&\;{}^{+}\geq)\,?\,\{{}^{+},\} \\
{}^{-}\geq -\infty^{-}\geq ({}^{-}\geq -\;\&\;{}^{+}\geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞						

$$
\begin{aligned}
&{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} + \\
&{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-) \\
&{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\ ?\ \{{}^{+}, \} \\
&{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\ ?\ {}^{-} \\
&{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{{}^{+}, \} \\
&{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{{}^{-}, \}
\end{aligned}
$$

$+$	∞	$-\infty$					
$-$	∞	$-\infty$					
$+$	∞	$-\infty$					
$-$	∞	$-\infty$					
$+$	∞	$-\infty$					
$-$	∞	$-\infty$					

$$-\infty^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} +$$
$$-\infty^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-)$$
$$-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\ ?\ \{^{+}, \}$$
$$-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\ ?\ {}^{-}$$
$$-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{^{+}, \}$$
$$-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{^{-}, \}$$

$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞						

$$-\infty^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+$$
$$-\infty^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-)$$
$$-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{^{+},\}$$
$$-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-}$$
$$-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{+},\}$$
$$-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{-},\}$$

$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞						

$$-\infty^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+$$
$$-\infty^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-)$$
$$-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{^{+},\}$$
$$-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-}$$
$$-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{+},\}$$
$$-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{-},\}$$

$+$	∞						
$-$	∞						
$+$	∞	$-\infty$					
$-$	∞	$-\infty$					
$+$	∞	$-\infty$					
$-$	∞	$-\infty$					

$$
\begin{aligned}
&{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} + \\
&{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-) \\
-\infty\,&{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\ ?\ \{{}^{+}, \} \\
-\infty\,&{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\ ?\ {}^{-} \\
-\infty\,&{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{{}^{+}, \} \\
-\infty\,&{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{{}^{-}, \}
\end{aligned}
$$

$+$	∞						
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$+$	∞						
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$+$	∞						
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$$
\begin{array}{l}
{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
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$+$	∞						
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$+$	∞						
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$$
\begin{array}{l}
{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
$-$	∞						
$+$	∞						
$-$	∞	∞					
$+$	∞	$-\infty$					
$-$	∞	$-\infty$					

$$
\begin{array}{l}
{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} + \\
{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-) \\
-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\ ?\ \{{}^{+}, \} \\
-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\ ?\ {}^{-} \\
-\infty^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{{}^{+}, \} \\
-\infty^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \ \&\ {}^{+} \geq)\ ?\ \{{}^{-}, \}
\end{array}
$$

$+$	∞						
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$+$	∞						
$-$	∞	∞					
$+$	∞	$-\infty$	$-\infty$				
$-$	∞	$-\infty$	$-\infty$				

$$
\begin{array}{l}
{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty\,{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty\,{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
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$+$	∞						
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$+$	∞						
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$$
\begin{array}{rl}
 & {}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
 & {}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
 & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
 & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
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$+$	∞						
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$+$	∞						
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$+$	∞						
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$$
\begin{array}{rl}
 & {}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
 & {}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
 & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
 & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
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$+$	∞						
$-$	∞	∞					
$+$	∞						
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$$
\begin{array}{rl}
 & {}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
 & {}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
 & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
 & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
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$+$	∞						
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$+$	∞						
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$$
\begin{array}{rl}
 & {}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
 & {}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
 & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
 & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
-\infty & {}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{+},\} \\
-\infty & {}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{-},\}
\end{array}
$$

$+$	∞						
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$+$	∞						
$-$	∞	∞					
$+$	∞						
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$$
\begin{aligned}
&{}^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+}+ \\
&{}^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-}+(-) \\
&{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{{}^{+},\} \\
&{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-} \\
&{}^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{+},\} \\
&{}^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \,\&\, {}^{+} \geq)\,?\,\{{}^{-},\}
\end{aligned}
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$+$	∞						
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$+$	∞						
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$$^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} +$$
$$^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-)$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-}$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{-},\}$$

$^{+}$	∞						
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$$^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} +$$
$$^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-)$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-}$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{-},\}$$

$^{+}$	∞	∞					
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$^{+}$	∞						
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$^{+}$	∞						
$^{-}$	∞						

$$^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} +$$
$$^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-)$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-}$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{-},\}$$

$^{+}$	∞	∞					
$^{-}$	∞						
$^{+}$	∞						
$^{-}$	∞	∞					
$^{+}$	∞						
$^{-}$	∞						

$$^{+} \geq -\infty^{+} \geq {}^{+} \geq {}^{+} +$$
$$^{-} \geq -\infty^{-} \geq {}^{-} \geq {}^{-} + (-)$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq -)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq -)\,?\,{}^{-}$$
$$^{+} \geq -\infty^{+} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{+},\}$$
$$^{-} \geq -\infty^{-} \geq ({}^{-} \geq - \;\&\; {}^{+} \geq)\,?\,\{^{-},\}$$

$^{+}$	∞						
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+	∞						
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+ ≥ −∞+ ≥ + ≥ + +
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+ ≥ −∞+ ≥ (− ≥ −) ? {+,}
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+	∞						
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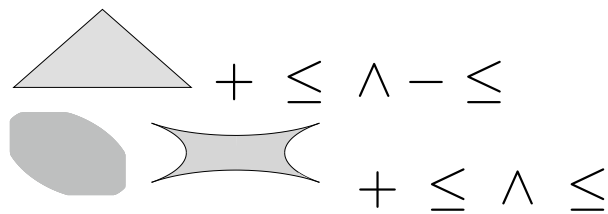
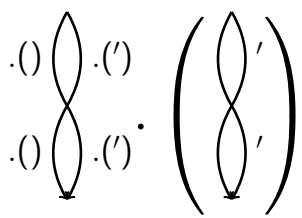
  - 
  - 
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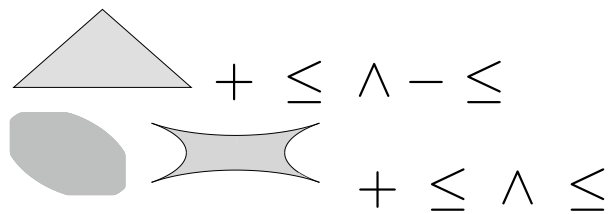
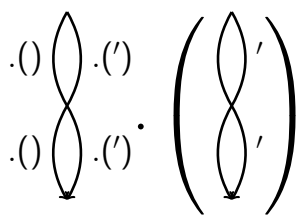
  - 
  - 
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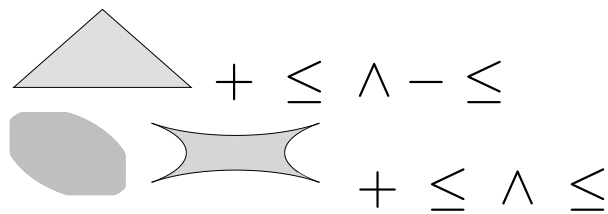
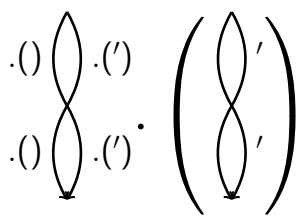
  - 
  - 
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