

$\llbracket \text{Lit } i \rrbracket \text{ sd } \gamma \text{ sd} \leq_s \text{sd}' \beta = \beta \leq_s\text{-refl } (\text{r-s } (\text{s-lit } i))$

$\llbracket \text{Neg } e \rrbracket \text{ sd } \gamma \text{ sd} \leq_s \text{sd}' \beta =$
 $\llbracket e \rrbracket \text{ sd } \gamma \text{ sd} \leq_s \text{sd}' (\text{use-temp } \lambda \text{ sd} \leq_s \text{sd}' s \rightarrow \beta \text{ sd} \leq_s \text{sd}' (\text{r-unary } \text{UNeg } s))$

$\llbracket \text{Plus } e_1 e_2 \rrbracket \text{ sd } \gamma \text{ sd} \leq_s \text{sd}' \beta =$
 $\llbracket e_1 \rrbracket \text{ sd } \gamma \text{ sd} \leq_s \text{sd}'$
 $(\text{use-temp } (\lambda \text{ sd}' \leq_s \text{sd}'' s_1 \rightarrow \llbracket e_2 \rrbracket \text{ sd } \gamma (\leq_s\text{-trans } \text{sd} \leq_s \text{sd}' \text{sd}' \leq_s \text{sd}''))$
 $(\text{use-temp } (\lambda \text{ sd}'' \leq_s \text{sd}''' s_2 \rightarrow \beta (\leq_s\text{-trans } \text{sd}' \leq_s \text{sd}'' \text{sd}'' \leq_s \text{sd}'''))$
 $(\text{r-binary } (\text{fmap-S } s_1 \text{sd}'' \leq_s \text{sd}''') \text{BPlus } s_2))))))$