Q-R-pre-preserving-rewrite-test[11,40]

$\forall es$:ES, P_1, P_2:(E$\to \mathbb{P}$), Q_1, R_1, Q_2, R_2:(E$\to$E$\to \mathbb{P}$), f:($\{e$:E$|$ $P_1(e)\}$ $\to$E).
$P_2 \Rightarrow P_1$
$\Rightarrow Q_2 => Q_1$
$\Rightarrow R_1 => R_2$
$\Rightarrow \{f$ is Q_1-R_1-pre-preserving on $P_1 \Rightarrow f$ is Q_2-R_2-pre-preserving on $P_2\}$