$$\begin{cases} E, Sign2, R, Fn \} \\ E = \{L, A, C\} \\ Sign2 \\ Fn \\ \lambda \end{cases}$$

$$(\lambda x.M)N$$

$$M[x = N]$$

$$M$$

$$(\lambda x.M)N$$

$$(\lambda xy.x)y$$

$$\lambda y.y$$

$$y$$

$$(\lambda xz.x)y$$

$$y$$

$$(\lambda xz.x)y$$

$$y$$

$$(\lambda xz.x)y$$

$$y$$

$$(\lambda xy.x)y$$

$$x[x = N] \Rightarrow N$$

$$y[x = N] \Rightarrow y$$

$$(PQ)[x = N] \Rightarrow (P[x = N]Q[x = N])$$

$$(\lambda x.P)[x = N] \Rightarrow (\lambda x.P)$$

$$N$$

$$x[x = N] \Rightarrow N$$

$$y[x = N] \Rightarrow N$$

$$y[x = N] \Rightarrow N$$

$$y[x = N] \Rightarrow y$$

$$(PQ)[x = N] \Rightarrow (P[x = N]Q[x = N])$$

 $(\lambda x.P)[x=N] \Rightarrow (\lambda x.P)$

 $(\lambda y.P)[x=N] \Rightarrow (\lambda y.P[x=N]), y \notin FV(N)$