

<p>VARIABLE</p> $\frac{\Gamma(x) = T}{\Gamma \vdash x \in T}$	<p>ABSTRACTION</p> $\frac{\Gamma, x : S \vdash t \in T}{\Gamma \vdash \mathbf{fun} (x : S) = t \in S \rightarrow T}$	<p>FUNCTION APPLICATION</p> $\frac{\Gamma \vdash t \in S \rightarrow T \quad \Gamma \vdash S \ni u}{\Gamma \vdash tu \in T}$
<p>LET BINDING</p> $\frac{\Gamma \vdash t \in T \quad \Gamma, x : T \vdash u \in S}{\Gamma \vdash \mathbf{let} x = t \mathbf{in} u \in S}$	<p>TYPE ABSTRACTION</p> $\frac{\Gamma, X \vdash t \in T \quad X \notin \mathit{freetyvars}(\Gamma)}{\Gamma \vdash \mathbf{fun} [X] = t \in \forall X.T}$	
<p>TYPE APPLICATION</p> $\frac{\Gamma \vdash t \in \forall X.T}{\Gamma \vdash t[S] \in T[X \mapsto S]}$	<p>TYPE ANNOTATION</p> $\frac{\Gamma \vdash T \ni t}{\Gamma \vdash (t : T) \in T}$	<p>TYPE CHECKING</p> $\frac{\Gamma \vdash t \in S \quad \Gamma \vdash S \equiv T}{\Gamma \vdash T \ni t}$