$$\textsc{Lambda}\frac{\Gamma[x \mapsto \sigma] \vdash e : \tau}{\Gamma \vdash \lambda x.e : \sigma \to \tau} \qquad \textsc{Var}\frac{}{\Gamma[x \mapsto \tau] \vdash x : \tau}$$

$$\textsc{AppPrim}\frac{\mathsf{Prim}(\sigma) \qquad \tau' \prec \tau}{\Gamma \vdash e : \sigma \to \tau' \qquad \Gamma \vdash e' : \sigma}{\Gamma \vdash e\, e' : \tau} \qquad \textsc{AppHO}\frac{\mathsf{HO}(\sigma') \qquad \tau' \prec \tau \qquad \sigma \prec \sigma'}{\Gamma \vdash e : \sigma' \to \tau' \qquad \Gamma \vdash e' : \sigma}{\Gamma \vdash e\, e' : \tau}$$

$$\textsc{If}\frac{\Gamma \vdash c : \sigma \qquad \Gamma \vdash (\sigma \prec \mathsf{True} \implies e : \tau') \qquad \tau' \prec \tau \qquad \Gamma \vdash (\sigma \prec \mathsf{False} \implies e' : \tau'') \qquad \tau'' \prec \tau}{\Gamma \vdash \mathsf{if}\ c\ \mathsf{then}\ e\ \mathsf{else}\ e' : \tau}$$

$$\textsc{Const}\frac{}{\Gamma \vdash c : c}$$

$$\textsc{Plus}\frac{\Gamma \vdash e : \tau' \qquad \Gamma \vdash e' : \tau'' \qquad \tau' + \tau'' \prec \tau}{\Gamma \vdash e + e' : \tau}$$