$$\text{(int)}\ \frac{\text{i est un entier}}{\Gamma \vdash i : int}$$

$$\text{(char)}\ \frac{\text{c est un char}}{\Gamma \vdash c : char}$$

$$\text{(string)}\ \frac{\text{s est une string}}{\Gamma \vdash s : string}$$

$$\text{(var)}\ \frac{E \vdash x : v \qquad \Gamma \vdash v : \tau}{E, \Gamma \vdash x : \tau}$$

$$\text{(true)}\ \frac{}{\Gamma \vdash \texttt{True} : bool}$$

$$\text{(false)}\ \frac{}{\Gamma \vdash \texttt{False} : bool}$$

$$\text{(tilde)}\ \frac{\Gamma \vdash \text{b: } bool}{\Gamma \vdash \sim \text{b: } bool}$$

$$\text{(eq)}\ \frac{\oplus \in \{\texttt{=}, \texttt{!=}\} \qquad \Gamma \vdash e_1 \text{: } \tau_1 \qquad \Gamma \vdash e_2 \text{: } \tau_2}{\Gamma \vdash e_1 \oplus e_2 \text{: } bool}$$

$$\text{(bool binop)}\ \frac{\oplus \in \{\texttt{>}, \texttt{<}, \texttt{>=}, \texttt{<=}\} \qquad \Gamma \vdash e_1 \text{: } int \qquad \Gamma \vdash e_2 \text{: } int}{\Gamma \vdash e_1 \oplus e_2 \text{: } bool}$$

$$\text{(int binop)}\ \frac{\oplus \in \{\texttt{+}, \texttt{-}, \texttt{*}, \texttt{/}, \texttt{\%}\} \qquad \Gamma \vdash e_1 \text{: } int \qquad \Gamma \vdash e_2 \text{: } int}{\Gamma \vdash e_1 \oplus e_2 \text{: } int}$$

$$\text{(minus)}\ \frac{\Gamma \vdash \text{i: } int}{\Gamma \vdash \texttt{-}\text{i: } int}$$

$$\text{(annot)}\ \frac{\Gamma \vdash \text{e:} \tau}{\Gamma \vdash (e : \tau) \text{:} \tau}$$

$$\text{(seq)}\ \frac{\Gamma \vdash e_1 \text{: } \tau_1 \qquad \Gamma \vdash e_2 \text{: } \tau_2}{\Gamma \vdash e_1 \texttt{;} e_2 \text{: } \tau_2}$$

$$\text{(app)}\ \frac{\Gamma \vdash e_1 \text{: } \tau_1 \to \tau_2 \qquad \Gamma \vdash e_2 \text{: } \tau_1}{\Gamma \vdash e_1 e_2 \text{: } \tau_2}$$

$$\text{(pattern and)}\frac{\Gamma \vdash p_1 \colon \tau \qquad \Gamma \vdash p_2 \colon \tau}{\Gamma \vdash p_1 \ \texttt{and} \ p_2 \colon \tau}$$

$$\text{(pattern and)}\frac{\Gamma \vdash p_1 \colon \tau \qquad \Gamma \vdash p_2 \colon \tau}{\Gamma \vdash p_1 \ \texttt{or} \ p_2 \colon \tau}$$