

$$\bullet \frac{E \vdash M_1 \Rightarrow \text{true} \quad E \vdash M_2 \Rightarrow N}{E \vdash \text{if } M_1 \text{ then } M_2 \text{ else } M_3 \Rightarrow N} \text{if_true}$$

$$\bullet \frac{E \vdash M_1 \Rightarrow \text{false} \quad E \vdash M_3 \Rightarrow N}{E \vdash \text{if } M_1 \text{ then } M_2 \text{ else } M_3 \Rightarrow N} \text{if_false}$$

$$\bullet \frac{E \vdash d \Rightarrow E' \quad E E' \vdash M \Rightarrow V}{E \vdash \text{let } d \text{ in } M \Rightarrow V} \text{let}$$

$$\bullet \frac{E \vdash M \Rightarrow V}{E \vdash x = M \Rightarrow \{ (x, V) \}} \text{decl}$$

$$\bullet \frac{E \vdash d_1 \Rightarrow E_1 \quad E \vdash d_2 \Rightarrow E_2}{E \vdash d_1 \text{ and } d_2 \Rightarrow E_1, E_2}$$