CS320 Programming Languages
Exercise #4

Consider the following `F1VAE`

$d ::= \mathsf{def}\ x(x){=}e$	function definition	$d \in \texttt{FunDef}$
$e ::= n$	number	$e \in \texttt{F1VAE}$
$\mid e + e$	addition	$n \in \mathbb{Z}$
$\mid \mathsf{val}\ x{=}e;\ e$	identifier introduction	$x \in \mathit{Var}$
$\mid x$	identifier	$\sigma \in \mathit{Var} \xrightarrow{\text{fin}} \mathbb{Z}$
$\mid x(e)$	function application	$\Lambda \in \mathit{Var} \xrightarrow{\text{fin}} \texttt{FunDef}$

Write the operational semantics of the form $\boxed{\sigma, \Lambda \vdash e \Rightarrow n}$.