

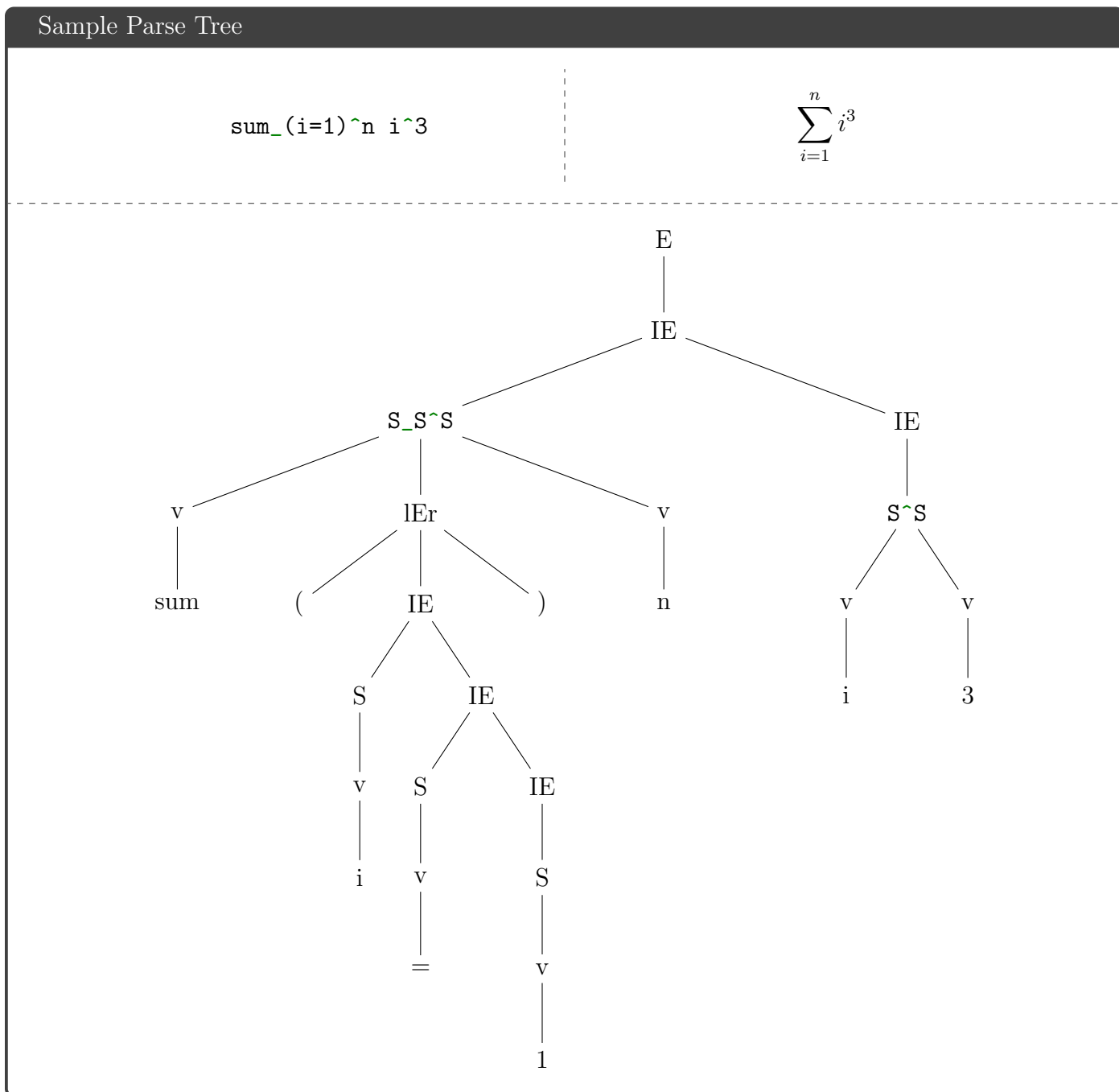
AsciiMath Grammar:¹

```

v ::= [A-Za-z] | greek letters | numbers | other constant symbols
u ::= sqrt | text | bb | other unary symbols for font commands
b ::= frac | root | stackrel | other binary symbols
l ::= ( | [ | { | (: | {: | other left brackets
r ::= ) | ] | } | :) | :} | other right brackets
S ::= v | lEr | uS | bSS           Simple expression
I ::= S_S | S^S | S_S^S | S       Intermediate expression
E ::= IE | I/I                    Expression

```

Sample Parse Tree



¹Details on AsciiMath can be found at <https://asciimath.org/>

Sample Parse Tree

$$9x=5$$

$$9x = 5$$

Sample Parse Tree

$$(3+x)^2$$

$$(3 + x)^2$$

Sample Parse Tree

 $\text{sqrt}\{x/5\}$ $\sqrt{\frac{x}{5}}$

Sample Parse Tree

 bbbZ_2 \mathbb{Z}_2