

Tuesday, September 10

Name \_\_\_\_\_

Email \_\_\_\_\_

6.035 Fall 2019

Miniquiz #5

5 minutes

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Consider the grammar:

$$E \rightarrow E \text{ AddOp } T \mid T$$
$$T \rightarrow T \text{ MulOp } F \mid F$$
$$F \rightarrow \text{Lbr } E \text{ Rbr } \mid ID$$
$$\text{AddOp} ::= + \mid -$$
$$\text{MulOp} ::= \times \mid \div$$
$$\text{Lbr} ::= ($$
$$\text{Rbr} ::= )$$
$$ID ::= a \mid b \mid \dots \mid z$$

Give the parse trees for the following strings:

$$x + y * z$$
$$(x + y) * z$$

Give the corresponding abstract syntax trees for the same strings: