

Tuesday, February 13

Name _____

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6.s081 Spring 2018

Miniquiz #4

5 Minutes

Consider the following grammar:

$Start \rightarrow E$

$E \rightarrow E \text{ AddOp } T \mid T$

$T \rightarrow T \text{ MulOp } F \mid F$

$F \rightarrow Lbr \ E \ Rbr \mid ID$

$AddOp ::= + \mid -$

$MulOp ::= * \mid \div$

$Lbr ::= ($

$Rbr ::=)$

$ID ::= a \mid b \mid \dots \mid z$

1. Give the parse tree for the string $(x + y) * z$.

2. Is the grammar provided ambiguous? Why or why not?