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- 1. List the members of your group below. Underline your name.
- 2. Consider the the grammar  $G_1$ :

$$T \rightarrow F \mid T/F \mid T*F$$

For each of the following strings, either provide a leftmost derivation of the string from S or explain why the string is not in  $L(G_1)$ : i+i+i/i\*i; i-ii\*i.

3. Is the grammar  $G_1$  ambiguous? Are its parse trees consistent with the usual interpretation of arithmetic symbols and expressions? Justify your answers.

4. Convert the grammar  $G_1$  of Question 2 to Chomsky normal form. Show intermediate

grammars.