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Problem 3

$S \rightarrow R \mid R_i \mid R_j \mid R_k \mid i \mid j \mid k$

$R \rightarrow \text{NUMBER} \mid \text{WHOLENUMBER}$

$S \rightarrow (S) \mid |S| \mid -S \mid S+S \mid S-S \mid S*S \mid S/S$

$S \rightarrow S^{\text{WHOLENUMBER}} \mid S^{-\text{WHOLENUMBER}}$

$S \rightarrow \text{ROTATION}(R, S)$