Problem 2

Monday 23 September 2024 2:15 PM

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Each of I, H, X, Y, Z, CNOT and TOF is a quantum circuit expression, and therefore terminals.

S --> | | H | X | Y | Z | CNOT | TOF

S - > E

S --> (S)

S --> S * S

 $S \longrightarrow S \otimes S$

Note that e represents empty string (epsilon)