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Activity 5.2

Using a CFG G, give a derivation and the corresponding parse tree for the string:

$$(0 \cup (10)*1)*$$

$S \rightarrow 0S \mid (T)S \mid \varepsilon$

$T \rightarrow 10T \mid \varepsilon$

$S \rightarrow (T)S$

$\qquad (10T)S$

$\qquad (101T)S$

$\qquad (101)S$

$\qquad (101)$

Parse Tree: