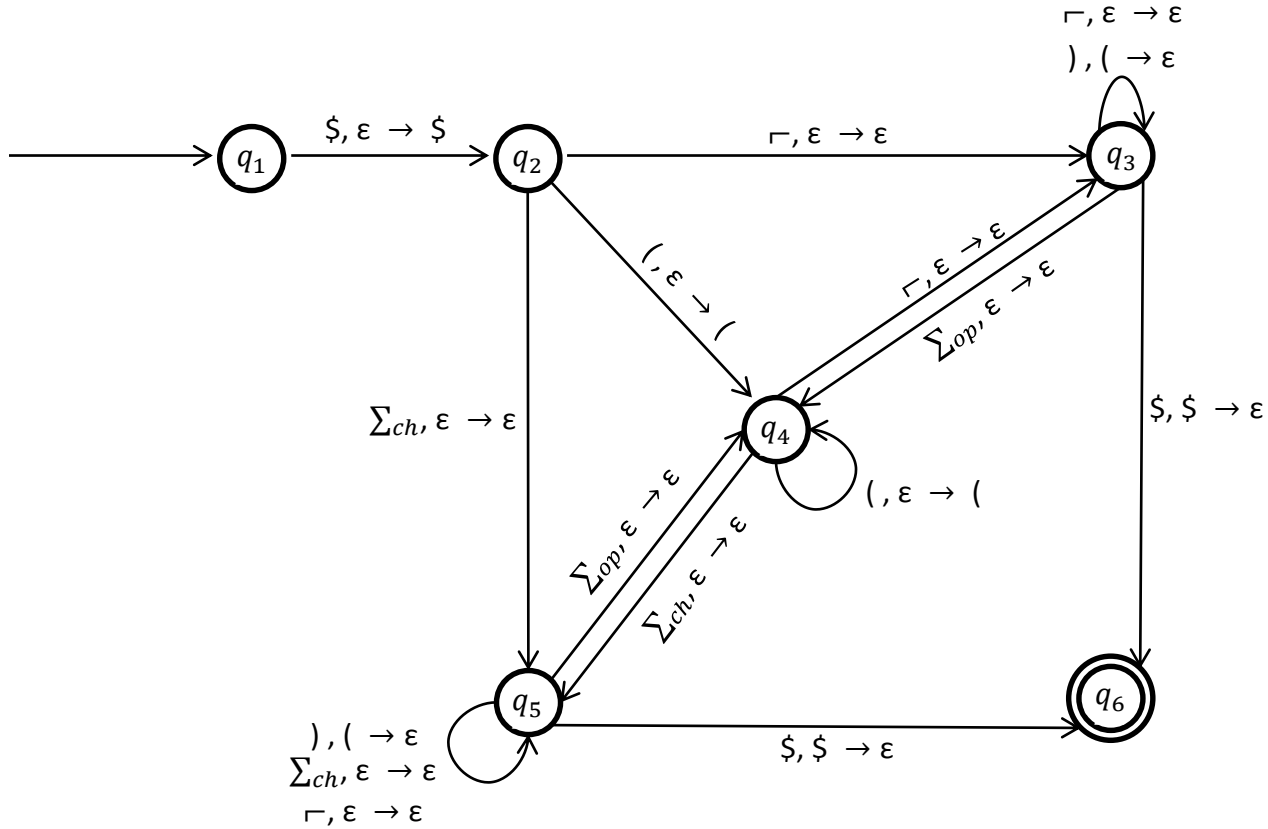


$\Gamma = \{0, 1, 2, \dots, 9\}$

$\Sigma_{ch} = \Sigma - (\Gamma \cup \{+, -, *, /, (, ), \$\})$ ; (i.e.  $\Sigma_{ch} = \{a, b, c, \dots, x, y, z, A, B, C, \dots, X, Y, Z, _\}$ )

$\Sigma_{op} = \Sigma - (\Sigma_{ch} \cup \Gamma \cup \{(, ), \$\})$ ; (i.e.  $\Sigma_{op} = \{+, -, *, /\}$ )



$PDA M = (Q, \Sigma, \Gamma, \delta, q_1, F)$

$Q = \{q_1, q_2, q_3, q_4, q_5, q_6\}$

$\Sigma = \{a, b, c, \dots, z, A, B, C, \dots, Z, 0, 1, 2, \dots, 9, +, -, *, /, (, ), \$, _\}$

$\Gamma = \{ \$, ( \}$

$\delta$ : Shown in diagram above.

$-q_1$  is start state.

$F = \{q_6\}$