Práctica 3 TALF

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1 Turing Machine example done with JFLAP
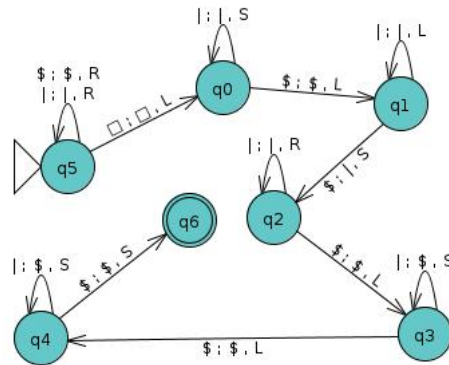

Figure 1: TM that sums 2 values

2 Requested Recursive function and an Octave capture

$$\text{addition\_3} = << \pi_1^1 | \sigma(\pi_3^3) > | \sigma(\pi_4^4) >$$

Figure 2: Addition3 in Octave execution

3 WHILE program that computes the sum of 3 values

```
Q: (3, 4, s)
s:
  while X1 != 0 do
    X2 := X2 + 1;
    X1 := X1 - 1
  od;
  X4 := X2;
  while X2 != 0 do
    X3 := X3 + 1;
    X2 := X2 - 1
  od;
  X1 := X4

  //Done with verbatim due to error in package whilecode
```