

Friday, September 9

Name _____

Email _____

6.035 Fall 2016

Miniquiz #3

5 minutes

1. Consider the language of binary strings defined by the following regular expression:

$$(10)^*01(10)^*(0|1)$$

Which of these strings are accepted by this expression? (Circle all that apply, if any).

- 10011
- 0110101
- 01
- 1010010
- 10011001

2. Give a regular expression which accepts the language of all binary strings which end in 1 and whose length is a positive multiple of 3.

3. Does the regular expression

$$[+|-](0|1|\dots|9)^*[(0|1|\dots|9)]^*$$

recognize the language of decimal numbers? Why or why not?