Quiz 1a

1. (3 points) I claim that in functional programming, ignoring infinite loops, new-if and if will both always get the same answer. Am I right? Justify your answer.

1. (3 points) Write a procedure mnemonic which takes the first letters of the words in a sentence and combines them into a word. If you need it, the empty word is “” and the empty sentence is ‘(). **We will cut points for bad style!**

> (mnemonic ‘(violet indigo blue green yellow orange red))

vibgyor

1. (4 points) Write a procedure planguage which takes a word and converts it to P language. To convert a word to P language, after every set of consecutive vowels, you should insert the letter p followed by the same set of consecutive vowels. If you need it, the empty word is “” and the empty sentence is ‘(). **We will cut points for bad style!**

Hint: Helper functions can come in handy for this problem.

> (planguage ‘balloon)

bapalloopoon

> (planguage ‘sequoia)

sepequoiapuoia

> (planguage ‘orangutan)

oporapanguputapan

(define (vowel? letter) (member? letter ‘aeiou))