MTH 448/563 – Spring 2018 – Quiz 1 – 2/15/2018 – 25 Minutes

Name and Student ID:

Answer the following. To receive full credit, you must explain your answer and show your work.
This also allows me to give partial credit.

(1) (5 pts) What is the output of the following code? Explain your answer.

```
import re
some_string = '3009 39 11a493 9 -1.23ax9 -663.9 345.069 20'
myre = '3.{1,2}9'
re.findall(myre,some_string)
```

(2) (5 pts) Compose a regular expression (myre = _____) that will return words (i.e., not partial words or strings) that satisfies the following 3 criteria: (i) starts with either 's' or 'a'; (ii) ends with 't'; and (iii) contains 2 or more letters. Explain your answer. Your answer should work for the following code:

```
myre =
some_string = 'It should find only act, at, and sat but not cat or saturn.'
re.findall(myre,some_string)
```

(3) (5 pts) Compose a regular expression (myre = _____) that will match any of the following seasons: 'Spring', 'Fall', 'Summer', and 'Winter' but neither 'Christmas' nor 'Thisword'. Explain your answer. Your regular expression should work for the following Python code:

```
some_string = 'My favorite season is Summer, but Winter is good too. Christmas is fun.'
myre =
re.findall(myre,some_string)
```

(4) (5 pts) Using the parentheses '()' function, compose a regular expression (myre = _____) that will extract the names of jpeg images from a string. Explain your answer. Your regular expression should work with the following code.

```
some_string = '<img src="picture1.jpg" alt="Mountain View">
               Here is some random sentence.
               <img src="picture2.jpg">'
myre =
re.findall(myre,some_string)
```