

Name _____

Python for Math and Stat Fall 2021 Exam 2

For this exam, assume that all necessary packages have been imported.

1. (44 pts) For the following 4 problems, write down what each code block would display if executed in a Jupyter cell.

(a)

```
x = []  
i = 1  
while len(x) < 2:  
    x += [i]  
    i += 5  
x
```

(b)

```
ssn = '456-12-7890'  
s = ssn.split('-')  
print(f'ssn {s[2]}')
```

(c)

```
alist = ['alpha', 'beta', 'gamma']  
for elt in alist:  
    if elt[1] in 'alist':  
        print(elt[1])
```

(d)

```
alist = ['alpha', 'beta', 'gamma']  
[y + str(x) for x, y in enumerate(alist)]
```

2. (14 pts) Write a recursive function sum.

5.