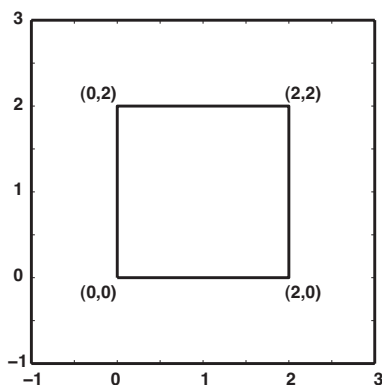


Math 251: Problem Set 1

Due: January 19, 2010

- Section 1.1: 1, 5, 7, 21, 25
- Section 1.2: 1, 3, 15
- Section 1.3: 1, 29, 31, 59
- Section 1.5: 1, 15, 19
- Section 1.6: 3, 21, 25, 39, 63
- Matlab:
 1. How would you ask Matlab to store in the variable **a** a list of numbers from 2 to 5 incremented by .1?
 2. How would you ask Matlab to store in the variable **b** a list of 20 equally spaced numbers from 2 to 5?
 3. How would you ask Matlab to draw the cubic $y=x^3$ from $x=-2$ to $x=2$?
 4. How would you ask Matlab to draw the following square using just one **plot**?



What happens if you type

```
>>axis([-1 4 -1 4])?
```

How about

```
>>axis square?
```

5. Design a picture using the **plot** command. Be creative! ☺