

Homework 1

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BME 211

Code:

```
Editor - /Users/sloanatkins/Documents/MATLAB/homework_one.m
homework_one.m x Matrices_Manipulations.m x lecture4.m x +
1 clear
2 p = [12,17,3,6];
3 q = [5,8,3;1,2,3;2,4,6];
4 r = [22;17;4];
5
6 x1 = p(:,2)
7 x2 = q(:,3)
8 x3 = q(3,:)
9 x4 = [diag(q)]
10 x5 = [p(1), p(2), p(3);q]
11 x6 = [r, q; p]
12 x7 = [q(1,:), q(2,:), q(3,:)]'
```

Output:

```
>> homework_one
```

```
x1 =
```

```
17
```

```
x2 =
```

```
3
3
6
```

```
x3 =
```

```
2 4 6
```

```
x4 =
```

```
5
2
6
```

```
x5 =
```

```
12 17 3
5 8 3
1 2 3
2 4 6
```

```
x6 =
```

```
22 5 8 3
17 1 2 3
4 2 4 6
12 17 3 6
```

```
x7 =
```

```
5
8
3
1
2
3
2
4
6
```

```
>>
```

Text:

clear

p = [12,17,3,6];

q = [5,8,3;1,2,3;2,4,6];

r = [22;17;4];

x1 = p(:,2)

x2 = q(:,3)

x3 = q(3,:)

x4 = [diag(q)]

x5 = [p(1), p(2), p(3);q]

x6 = [r, q; p]

x7 = [q(1,:), q(2,:), q(3,:)]'