
You don't need to print out the answers for Questions 1 through 4. You can combine the scripts for Questions 5 through 8 into a single script (but make sure the parts are distinct).

- 1) (1 pt) Think about this question. Don't look up the answer online. Suppose $a = 1$ and $b = 2$. How can you swap the values of a and b ?

- 2) (1 pts) What does MATLAB do when you type in

```
>> clear
>> x(5) = 7
```

Why do you get this output?

- 3) (1 pts) What happens when you type in

```
>> clear
>> x(-1) = 7
```

Why do you get this output?

- 4) (1 pts) What happens when you type in

```
>> clear
>> x(1.3) = 7
```

Why do you get this output?

- 5) (2 pts) Write a script that will sum the squares of the elements of a vector.
- 6) (2 pts) Modify the `getmax.m` script so that it determines the minimum value (and its location) in the vector x .
- 7) (4 pts) Modify the `getmax.m` script so that it determines the maximum absolute value of the elements of x (and its location).
- 8) (2 pts) Modify the `getmax2.m` script so that the location of the maximum is the *last* occurrence instead of the first. There are two ways to do this. The (slightly) hard way would be to do the search backwards through the vector. The easier way is to add a single character to the script.