

Math 451

Q's → Hard in? (How?)

② Scalars vs Vectors

→ Memory

→ Speed?

→ Hard to understand

Ops - Octave / Matlab

& arg()

Scripts / Functions

Script.m

```
% Help comments  
%
```

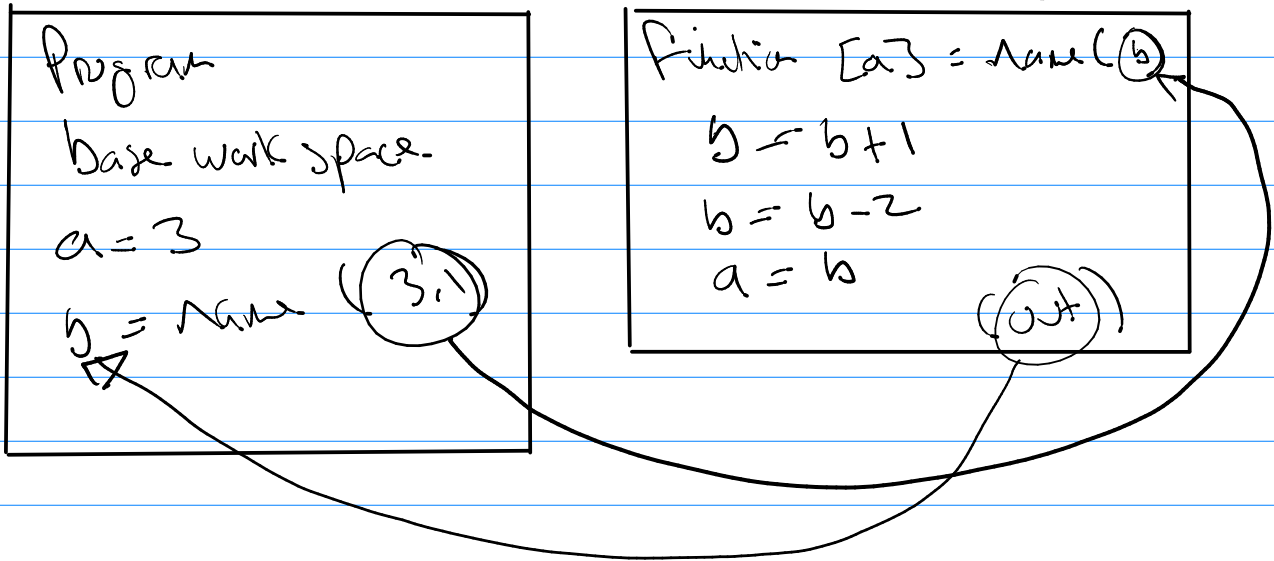
.m files of plain text

Function.m

```
function [vars] = function (input)  
% Help comment  
  
end
```

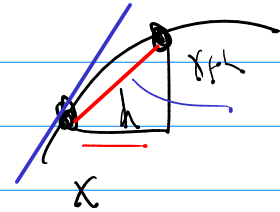
Memory

has its own memory space



Anonymous function.

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$



$$f'(x) \approx \frac{f(x+h) - f(x)}{h} \quad (\text{small } h)$$

$$\frac{d}{dx} [\sin(3)] \approx \frac{\sin(3+0.01) - \sin(3)}{0.01}$$

$$\text{adery}(f, x, h) = \frac{f(x+h) - f(x)}{h}$$

