
Instructor Solution

Table of Contents

.....	1
TEST, Exercise 3	1
EXERCISE DESCRIPTION:	1
Hints	1
Additional file: sqr.m	1
SOLUTION:	2

IMPORTANT:

Do not change **anything** in this header (besides your name and due date above as needed)!

Put your solution to the exercise completely at the end of this file.

TEST, Exercise 3

```
if ~exist('__code__', 'var') ; clear ; end  
format compact  
more off
```

EXERCISE DESCRIPTION:

Write an extremely simple function `sqr` and test it.

Hints

- Use "New", "Function" to initialize the function. Then to keep it simple, get rid of all the comment junk. Just put in the essentials. Save the file as `sqr.m`.
- You can, and must, add comments to `sqr.m` when all works fine.

Additional file: `sqr.m`

```
function xSqr = sqr(x)  
  
%  
% Function that returns the square of its input argument.  
%  
% xSqr = sqr(x)  
%  
% Input:  
%  
% x: Can be any number or expression evaluating to a
```

```
%           number.  
%  
% Output:  
%  
%   xSqr: Square of x.  
%  
% set xSqr equal to the square of x  
xSqr=x*x;  
% don't forget the semicolon or results will be messy!  
  
end
```

SOLUTION:

```
% evaluate the square of 3  
sqr(3)  
  
ans =  
      9  
  
% evaluate the square of 4  
sqr(4)  
  
ans =  
     16  
  
% give variable x the value 5  
myVar=5  
% evaluate the square of the variable  
sqr(myVar)  
  
myVar =  
      5  
ans =  
     25  
  
% show that help works for the function  
help sqr
```

Function that returns the square of its input argument.

xSqr = sqr(x)

Input:

x: Can be any number or expression evaluating to a number.

Output:

xSqr: Square of x.

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