Homework Quiz 3

Due 13 Oct at 6:00

Points 170

Questions 20

Available 6 Oct at 6:00 - 13 Oct at 6:00

Time limit None

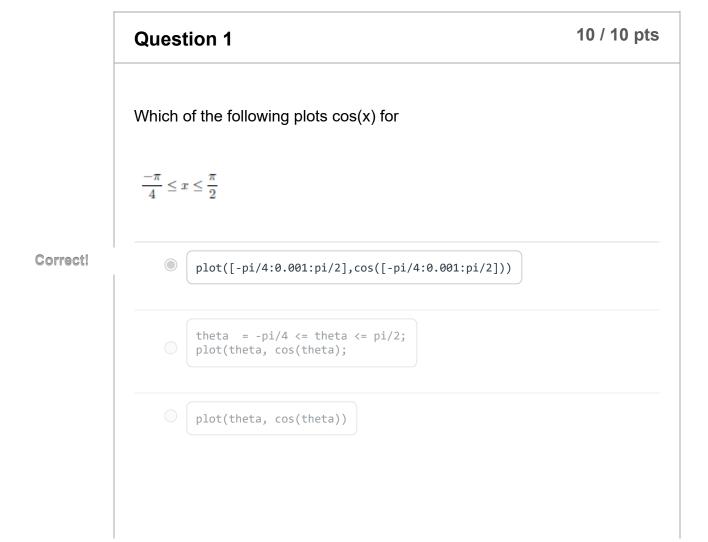
This quiz was locked 13 Oct at 6:00.

Attempt history

	Attempt	Time	Score
LATEST	Attempt 1	40 minutes	170 out of 170

Score for this quiz: 170 out of 170

Submitted 10 Oct at 20:43
This attempt took 40 minutes.





Question 2 Let data be a Matlab array of size 2x80. Which of the following plots second row vs. first row of data? (first row should be on the x-axis) plot(data(:,2),data(:,1)) plot(data(2,:),data(1,:)) plot(data(1,:),data(2,:)) Very good!

Correct!

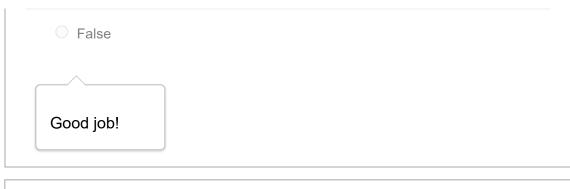
Correct!

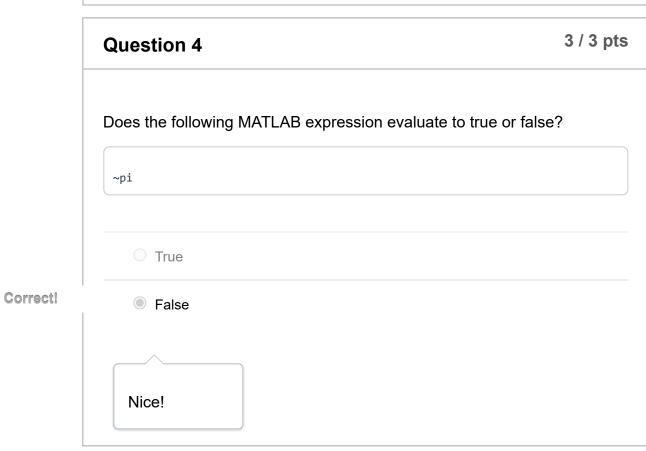
```
Question 3

Does the following MATLAB expression evaluate to true or false?

(6 < 0) || (0 < 6)

True
```

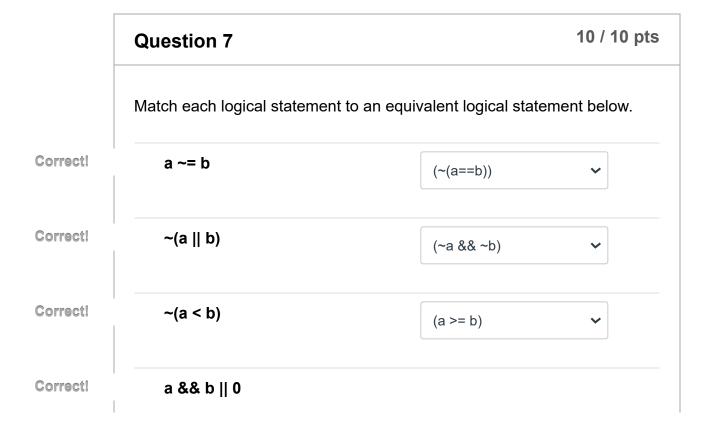


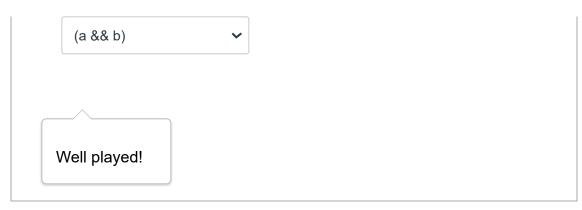


	Question 5	3 / 3 pts
	Does the following MATLAB expression evaluate to true or false	?
	true >= false	
Correct!	True	
	○ False	

Well done!

	Question 6	3 / 3 pts
Correct!	Does the following MATLAB expression evaluate to true or false	∍?
	1 0 && 1	
	True	
	False	
	Good job!	





```
10 / 10 pts
Question 8
What is printed out after the following code is run?
 x = -2;
 if x < 0
    if (abs(x) \sim 2)
        disp('a')
     else
        disp('b')
     end
     disp('c')
 end
   Оа
    b
    _ c
   Great!
```

Correct!

Question 9 10 / 10 pts

We want to make the vector f (defined below) using the following code:

What is the error in line 1?

$$f(x) = \begin{cases} x^2 & x > 0, \\ -x & x \le 0 \end{cases} \quad \text{for} \quad -5 \le x \le 5$$

Correct!

- No error
- Vector of incorrect dimensions
- logic error
- Misplaced colon or semi-colon

Good!

Question 10

10 / 10 pts

We want to make the vector f (defined below) using the following code:

What is the error in line 2?

$$f(x) = \begin{cases} x^2 & x > 0, \\ -x & x \le 0 \end{cases} \quad \text{for} \quad -5 \le x \le 5$$

Correct!

- Incorrect matrix dimensions
- Logic error
- Misplaced colon or semi-colon

Nice!

Question 11

10 / 10 pts

We want to make the vector f (defined below) using the following code:

What is the error in code block 3?

$$f(x) = \begin{cases} x^2 & x > 0, \\ -x & x \le 0 \end{cases} \quad \text{for} \quad -5 \le x \le 5$$

Correct!

- Incorrect dimensions of assignment.
- ono error.
- Misplaced semi-colon.

Good!

Question 12 10 / 10 pts

This code fragment is supposed to examine the variable temp and print a diagnostic message. A normal body temperature is roughly 98.7 degrees, while a temperature above 99.5 is usually considered a fever that can be treated at home. A temperature of 103 or more is a dangerous fever that requires medical attention.

For each blank below, choose the statement that should appear there.

```
if _____ (a)
    disp('Temperature below normal');
elseif ____ (b)
    disp('Temperature normal');
elseif ____ (c)
    disp('Temperature slightly high');
else
    disp('Temperature dangerously high');
end
```

Correct!

blank a

temp <= 97.5

Correct!

blank b

temp <= 99.5

Correct!

blank c

temp <= 103.0

Good matching!

Question 13 10 / 10 pts

What is the value of x at the end of the loop?

Correct!

- 10
- 0
- 9
- 11
- infinite loop

Well done!

Question 14

10 / 10 pts

Consider the code:

```
x = 2;
while x >= 0
    x = x -1;
end
```

What is the value of x at the end of the loop?

Correct!	-1	
	0	
	O Inf	
	O - Inf	
	infinite loop	
	Good!	
	Question 15 10 / 10 pt	S
	<pre>A = [4 -1; 2 3]; s = size(A) total = 0; for ii = 1:s(1) for jj = 1:s(2) total = total + A(ii,jj); end end</pre> What is the value of total at the end of this code?	
Correct!	8	
	O 2	
	O 1	
	O 10	

Sweet!

Question 16

10 / 10 pts

```
ires = 0
for ii = [1:3,7:10]
    ires = ires + 1;
end
```

What is the value of ires?

Correct!

- **7**
- 0 10
- 0
- 0 1

Nice!

Question 17

10 / 10 pts

```
ires = 0
for ii = 0:10
   ires = ires + 1;
end
```

Which of the following while loops is equivalent to the for loop above?

```
Correct!
```

```
ires = 0
while ires < 11
    ires = ires + 1;
end

ires = 0
while ires < 10
    ires = ires + 1;
end

ires = 0
while ires < 11
    ires = ires + 1;
end

By golly, you've got it!</pre>
```

Question 18

10 / 10 pts

```
x = [ 3 2 7 2];
for ii = x
    fprintf('%g \n', ii)
end
```

What is printed after the above code is run?

Correct!



- nothing
- infinite loop
- 3

Good job!

Question 19

10 / 10 pts

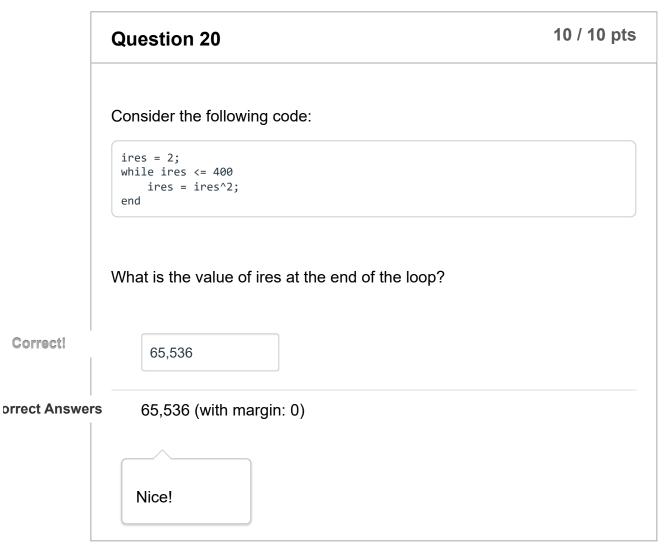
```
x = [ 3 2 7 2];
L = length(x);
for ii = 1:L
    if x(ii) > 2
        x(end + 1) = ii
    end
end
```

What is the value of x at the end of the loop?

Correct!

- [3 2 7 2 1 3]
- [3 2 7 2]
- [3 2 7 2 3]
- o error, can't access end + 1 element
- error, can't change vector x
- [3 2 7 2 1 2 3 4]
- infinite loop

Sweet!



Quiz score: **170** out of 170