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**Chapter 8**

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**Question 8.1: What folder am I in?**

Describe the location that displays the current working directory for MATLAB. This is the directory that MATLAB currently has access to.

Graphical user interface, application, Word

Description automatically generated

**Question 8.2: What is displayed in the command window?1 pts**

For this question, I am assuming that you named your file the same thing that I did, avgExam.m. With that being the case, what text is displayed in the command window when you click the run button?

**Question 8.3: Making vectors1 pts**

Which of the following will create a row vector named row\_boi containing the values 65 12 1 and 5? (Note: the numbers do not necessarily need to be in that order...)

**Correct Answer**

row\_boi = ​[1,5,12,65]

row\_vector = ​[65 12 1 5]

row\_vector = ​[1;5;12;65]

row\_boi = ​[65;12;1;5]

row\_boi = ]65,12,1,5[

**Question 8.4: True or False?1 pts**

True or False. Typing in variable = ​[2:2:11] will throw an error because you are starting at the number 2, spacing by an even number 2, and asking MATLAB to complete the array on the number 11 which is not even.

True

**Correct Answer**

False

**Question 8.5: Negative spaced arrays?1 pts**

Which of the following commands will create a negatively spaced array called backwards\_boi that contains the numbers 99 through 88 in decreasing order?

backwards\_boi = ​[88:-1:99]

**Correct Answer**

backwards\_boi = ​[99:-1:88]

backwards\_boi = ​[99:1:88]

backwards\_boi = ​[88:1:99]

**Question 8.6: MATLAB Error1 pts**

What is the error that is displayed if you try to type in a matrix where the number of elements in each row is not the same?

**Correct Answer**

Dimensions of arrays being concatenated are not consistent.

The number of elements in each row is not equal.

The dimensions requested are not available.

**Question 8.7: What is the variable?1 pts**

Given the following three MATLAB commands:

>> thomas = ones(9,1)

>> BANANA = ones(1,9)

>> rhino = ones(9,9)

Which variable will be a row vector of all ones?

thomas

rhino

**Correct Answer**

BANANA

**Question 8.8: Transpose neo1 pts**

Given the image of the user's workspace, consider command trinity = neo' to be entered into the command window. What would the trinity variable look like in the workspace after typing in that command?Graphical user interface

Description automatically generated

**Correct Answer**

trinity = ​[1,4,7;2,5,8;3,6,9]

trinity = ​[1,2,3;4,5,6;7,8,9]

trinity = ​[7,8,9;4,5,6;1,2,3]

trinity = ​[9,8,7;6,5,4;3,2,1]

**Question 8.9: Velocity1 pts**

Which of the following lines of code would correctly calculate the velocity of our object from the time 15 to time 20? Hint: the answer should be 3.6

vel = (position(4)-position(5))/(time(5)-time(4))

vel = (position(5)-position(4))/(time(4)-time(5))

**Correct Answer**

vel = (position(5)-position(4))/(time(5)-time(4))

vel = (position(4)-position(5))/(time(4)-time(5))

**Question 8.10: Matrix addressing practice1 pts**

Given that you have the correct matrix variable stored in your workspace, what is the answer to matrix(2,2) + matrix(4,1) - matrix(1,1)?

**Correct Answer**

-2

-4

17

10

**Personal Reflection - Chapter 81 pts**

This is a completely anonymous submission. The professor will be able to see the responses but the responses will not be attributed to an author. Your participation is required.

What do you think about the content of this chapter? Did you learn anything new? Do you need to do some more practice? There sure was a lot of information. Do you think you need to go through everything again (maybe tomorrow since now you are sore)? Do some personal reflection.

**Request for Feedback - Chapter 81 pts**

This is a completely anonymous submission. The professor will be able to see the responses but the responses will not be attributed to an author. Your participation is required.

What did you think of this chapter? Anything stand out as exceptionally good? Anything that you would like to see differently? I know this chapter is a lot so be specific in your feedback so that I can improve it. Any feedback is appreciated.