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CS 100
Fall 2015
Lab #1
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1. Evaluate the following MATLAB expressions by hand and use MATLAB to check the answers

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a. 2 / 2 * 3

b. 6 - 2 / 5 + 7 ^ 2 - 1

c. 10 / 2 \ 5 - 3 + 2 * 4

d. 3 ^ 2 / 4

e. 3 ^ 2 ^ 2

f. 2 + round(6 / 9 + 3 * 2) / 2 - 3

g. 2 + floor(6 / 9 + 3 * 2) / 2 - 3

h. 2 + ceil(6 / 9 + 3 * 2) / 2 - 3
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2. Evaluate the following MATLAB expressions by hand and use MATLAB to check the answers.

- a.1+2*3
- b. (1+2)*3
- c.4/2+1
- d. 1+4/2
- e.4/(2+1)
- f.8²/3
- $g.8^{(2/3)}$
- h. 12/2/3
- i.12/(2*3)
- j.4³²
- k.4^(3^2)
- 1. (4^3)^2

3. Evaluate the following MATLAB expressions by hand and use MATLAB to check the answers.

- $a \cdot \frac{1}{2x3}$
- b. 2^{2x3}

$$c.\sqrt{(3-6)^2+(5-9)^2}$$

- 4. Evaluate the following MATLAB expressions by hand and use MATLAB to check the answers.
 - a. x = 3 > 2
 - b. x = 2 > 3
 - c. x = -4 <= -3
 - d. x = 1 < 1
 - e. $x = 2 \sim 2$
 - f. x = 3 == 3
 - q. x = 0 < 0.5 < 1
- 5. Set the variables, A, B, and C to the logic values:

A=true

B=false

C=true

Evaluate the following MATLAB expressions by hand and use MATLAB to check the answers.

- a.the logical AND of A and B
- b. (the logical AND of A and B) combined with the logical OR of ${\tt C}$
- ${\tt c.the}$ logical EXCLUSIVE OR of A and B
- d. the logical NOT of A